Product Catalog

It's In-Vehicle

SUNIT

Sunit Oy

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+358 (0)8 632 600

DOWNLOAD DIGITAL
PRODUCT CATALOG

www.sunit.fi

F-Serial & Screens

7" W-VGA
10.4" W-VGA
12.4" W-VGA
18.5" W-XGA

SUNIT
COMPUTERS
SUNIT

IoT Tablet

All-in-One Panel-PC

Tablet Interface SUNIT Screen

Tablet / PC
Gear for Dual Screen
SUNIT-Screen

IoT Client Terminal

PoE+ Extender

USB-HUB's 2.0 / 3.0

Cameras

Keypads Keyboards

Cables & Adapters

Statives

Antennas

FQ Multi-LTE

Work Stations

FQ Bike

SUNIT F-Serial
1-DIN Sized FIXED Mount CPU Family

SUNIT-F Serial Computers build on firm and light-weighted geometry designed cast-aluminium mechanics and conformal coated Solid-electronics.

A traditional concept with over 20 years In-Field service experience, have proofed excellent and reliable technology.

Ease and discrete mounting enables safe and invisible placements.

Inbuilt IoT-computer for CAN-Bus, sensors and data-I/O's are ease-to-reach by Client applications.

Rapid 72-channel 3D-GPS with G-sensor and ADR ensures accurate positioning and serves dual GPS-interface for Multitask-Applications

Tri-graphic and Rapid Storage technology with up-to 4 Stand-Alone HMI (2 x Digital-LVDS, Display-Port, Wi-Fi) is efficient and cost-effective solution to exploit shared PC technologies.

CPU BASE MODEL	FQ5	FDQ	FMD
CPU	i5 4 X 2.9 GHz	i7 4 X 2.0 GHz	i7 4 X 3.0 GHz
RAM	8GB (8GB)	8GB (8GB)	8GB (8GB)
STORAGE	SSD 256GB (512GB-1TB)		
WIN O/S	10	10	10
LINUX O/S	UBUNTU	UBUNTU	UBUNTU
AUDIO OUT	SCREEN, STEREO-LINE & AUDIO I/O		
MIC.-IN	X	X	X
OEM SCREENS	2X	2X	2X
DISPLAYPORT	1X	1X	1X
ETHERNET 1GB	1X	1X	1X
USB3.0	3X	3X	3X
SIM-SLOT	2X	2X	2X
CAN	2X	2X	2X
DIGITAL-IN	3X	3X	3X
DIGITAL-OUT	4X	4X	4X
ANALOG-IN	4X	4X	4X
GYRO/ACC.	X	X	X
GPS/GNSS	X	X	X
TELE-MODEM	4G / LTE	4G / LTE	4G / LTE
SERIAL CONN.	1X	1X	1X
DUAL-GNSS	X	X	X
OPTIONALS			
WI-FI	X	X	X
BLUETOOTH	X	X	X

CPU VARIANT MARKINGS	T	TI	TS	TE	S	E	M-LTE	MC-BIKE
USB 3.0	3X	3X	3X	3X	4X	4X	3X	3X
USB 2.0	-	-	-	-	-	-	1X	2X
ANALOG VIDEO-IN	-	-	-	-	-	4X	-	-
SERIAL CONN.	-	-	1X	4X	4X	4X	4X	1X
DISLPAYPORT	1X	1X	1X	1X	1X	1X	-	-
ETHERNET 1GB	2X	2X	2X	2X	1X	1X	1X	1X

SUNIT FQ5
INTEL i5 4 x 1.9GHz CPU SERVER
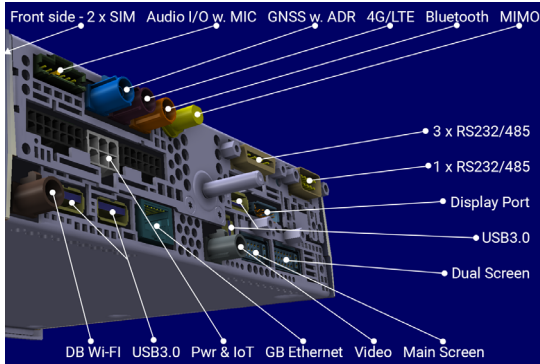
- 6th Gen. Wide-temp. Intel® i5 6442EQ Skylake
- 4 x 2.9GHz
- Intel HD Graphics 530
- 3 x Screen Interfaces
- Up to 4 x Stand-alone Video
- Up to 4 x RS232 / 485
- Dual-Band Wi-Fi, BT4.2, GB-Ethernet
- 4G / LTE. Dual-SIM
- Stereo-Lines, Audio-I/O, Screen-Audio
- Accurate 72-channles 3D GNNS, ADR
- 3D-Gyro
- 2 x CAN, D-IO's, An-In's
- Vehicles; VSS, Gearshift sense, IGN-Sense
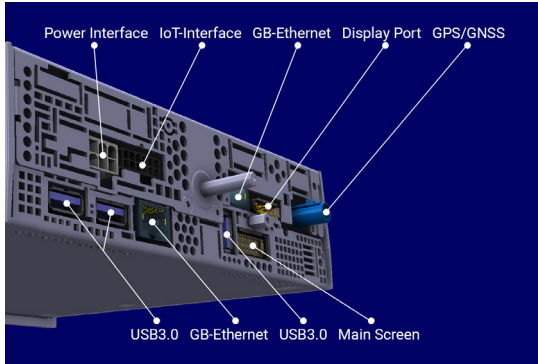- 9 ... 36V / Core-Pwr. monitory

SUNIT FDQ
INTEL i7 4 X 2.0GHz CPU-SERVER
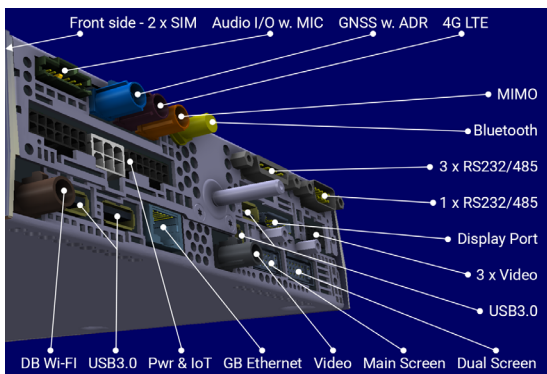
- 6th Gen. Wide-temp. Intel® i7 6822EQ Skylake
- 4 x 2.0GHz
- Intel HD Tri-graphic
- 3 x Screen Interfaces
- Up to 4 x Stand-alone Video
- Up to 4 x RS232 / 485
- Dual-Band Wi-Fi, BT4.2, GB-Ethernet
- 4G / LTE. Dual-SIM
- Stereo-Lines, Audio-I/O, Screen-Audio
- Accurate 72-channles 3D GNNS, ADR
- 3D-Gyro
- 2 x CAN, D-IO's, An-In's
- Vehicles; VSS, Gearshift sense, IGN-Sense
- 9 ... 36V / Core-Pwr. monitory

SUNIT   FMD
INTEL i7 4 X 3.0GHz FOR INTELLIGENCE DUTIES
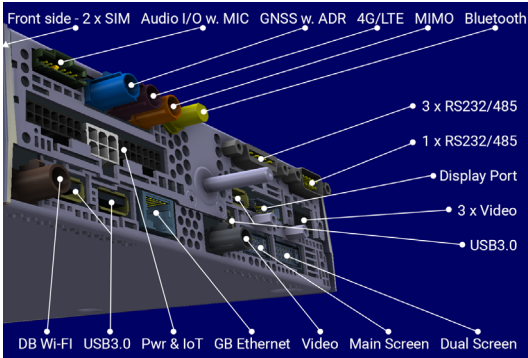
SUNIT FMD is designed for Applications that call for powerful graphic processing, High-speed Arithmetic, Multi-HMI as Mission Critical and ANPR.

- 7th Gen. Wide-temp. Intel® i7 7820EQ Kaby Lake H
- 4 x 3.0GHz
- Intel HD Tri-graphic
- 3 x Screen Interfaces
- Up to 4 x Stand-alone Video
- Up to 4 x RS232 / 485
- Dual-Band Wi-Fi, BT4.2, GB-Ethernet
- 4G / LTE. Dual-SIM
- Stereo-Lines, Audio-I/O, Screen-Audio
- Accurate 72-channles 3D GNNS w. ADR & Gyro
- 3D-Gyro
- 2 x CAN, D-IO's, An-In's
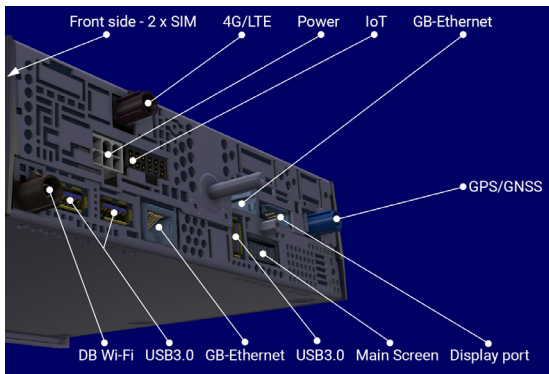- Vehicles; VSS, Gearshift sense, IGN-Sense
- 9 ... 36V / Core-Pwr. monitory

SUNIT   FQ T
DUAL GB-ETHERNET INTEL i7 CPU SERVER FOR INDUSTRY

Power Interface   IoT-Interface   GB-Ethernet   Display Port   GPS/GNSS

USB3.0   GB-Ethernet   USB3.0   Main Screen

Suitable Computers: FQ5, FDQ, FMD

- CPU:
  - Intel® i5-7440EQ Kaby Lake-H, 4x2.9GHz
  - Intel® i7 6822EQ Skylake-H 4x2.0GHz
  - Intel® i7 7820EQ Kaby Lake-H 4x3.0GHz
- Intel Full-HD Dual-Graphics
- 2 x GB-Ethernet for Multiple Gateways
- 2 x Screen Interfaces
- 1 x Video
- Dual-Band Wi-Fi, BT4.2
- Screen-Audio
- Accurate 72-channles 3D GNNS, ADR
- 3D-Gyro
- 2xCAN, Digital I/O's
- Vehicles; VSS, Gearshift sense, IGN-Sense
- 9 ... 36V / Core-Power monitory

SUNIT   FQT i
DUAL GB-ETHERNET INTEL i7 CPU SERVER FOR FIELD INDUSTRY

Front side - 2 x SIM   4G/LTE   Power   IoT   GB-Ethernet

GPS/GNSS

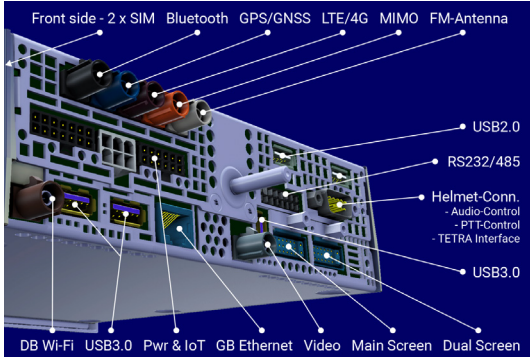DB Wi-Fi   USB3.0   GB-Ethernet   USB3.0   Main Screen   Display port

Suitable Computers: FQ5, FDQ, FMD

- Wide-temp. Intel® i7 6822EQ Skylake 4x2.0GHz
- or
- Wide-temp. Intel® i7 7820EQ KabyLake H 4x3.0GHz
- Intel Full-HD Dual-Graphics
- 2 x GB-Ethernet for Multiple Gateways
- 2 x Screen Interfaces
- 1 x Video
- Dual-Band Wi-Fi, BT4.2
- 4G / LTE. Dual-SIM
- Screen-Audio
- Accurate 72-channles 3D GNNS w. ADR & Gyro
- 3D-Gyro
- 2 x CAN, D-IO's, An-In's
- Vehicles; VSS, Gearshift sense, IGN-Sense
- 9 ... 36V / Core-Pwr. monitory

SUNIT FQ Bike-Assist
MISSION CRITICAL CPU SERVER / VOICE-ROUTING & DAB+

SUNIT FQ Bike-Assist is computer for Patrol-bike service. The Computer is featured by FM-receiver with DAB+ traffic messaging for Navigation Applications and Voice-control to select prioritized voices between Navigator, Phone, PC and Tetra.
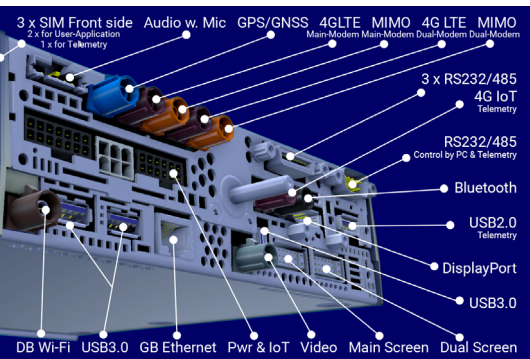

Front side - 2 x SIM | Bluetooth | GPS/GNSS | LTE/4G | MIMO | FM-Antenna

USB2.0
RS232/485
Helmet-Conn.
- Audio-Control
- PTT-Control
- TETRA Interface
USB3.0

DB Wi-Fi | USB3.0 | Pwr & IoT | GB Ethernet | Video | Main Screen | Dual Screen

Suitable Computers: FQ5, FDQ, FMD

- Wide-temp. Intel® i7 6822EQ Skylake 4x2.0GHz
  or
- Wide-temp. Intel® i7 7820EQ KabyLake H 4x3.0GHz
- Intel Full-HD Dual-Graphics
- GB-Ethernet
- 2 x Screen Interfaces
- FM-DAB+ Interface
- Voice-Router & PPT Controller for Tetra (Option)
- 1 x Video
- Dual-Band Wi-Fi, BT4.2
- Stereo-Lines, Screen-Audio
- Accurate 72-channles 3D GNNS, ADR
- 3D-Gyro
- 2 x CAN, D-IO's, An-In's
- Vehicles; VSS, Gearshift sense, IGN-Sense
- 9 ... 36V / Core-Pwr. monitory

SUNIT FQ Multi-LTE
ALWAYS CONNECTED ON CRITICAL COMMUNICATION

MULTI-LTE solution ensures for Critical communication required All-time connections.
There is Up-to 3 modems, 2 for Client applications and 2 for IoT.
There is Individual SIM-Slots for all 3 Modems

3 x SIM Front side
2 x for User-Application
1 x for Telemetry | Audio w. Mic | GPS/GNSS | 4GLTE Main-Modem | MIMO Main-Modem | 4G LTE Dual-Modem | MIMO Dual-Modem

3 x RS232/485
4G IoT Telemetry
RS232/485 Control by PC & Telemetry
Bluetooth
USB2.0 Telemetry
DisplayPort
USB3.0

DB Wi-Fi | USB3.0 | GB Ethernet | Pwr & IoT | Video | Main Screen | Dual Screen

Suitable Computers: FQ5, FDQ, FMD

- Intel HD Tri-graphic
- 1 x GigaBit-Ethernet
- 3 x Screen Interfaces
- 1x Video (Option 4 x Video)
- Dual-Band Wi-Fi & BT4.2,
- Single, Dual or Tri LTE Modems
  Individual SIM-Slots
- As Option:
  FM-receiver with DAB+
  Voice-priority control (4-channels)
  Additional Android/Linux CPU for IoT
- 2 x CAN, D-IO's, Analog-In's
- Accurate 72-channles 3D GNNS
- 3D-Gyro
- Vehicles; VSS, Gearshift sense, FMS
- Intelligent Power-Moding
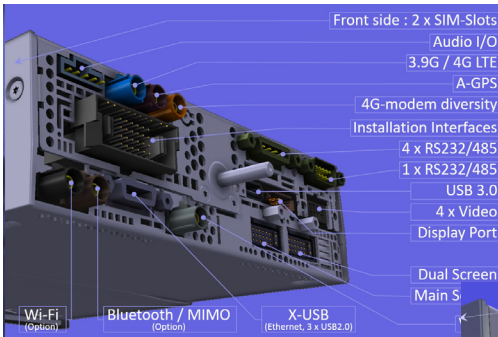- 9 ... 36V / Core-Power monitory

SUNIT

GENERATION UPGRADE
F2 to FQ Serial

RE-CONNECT

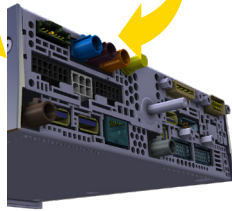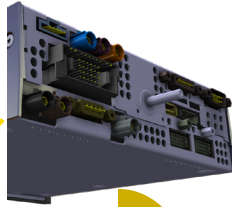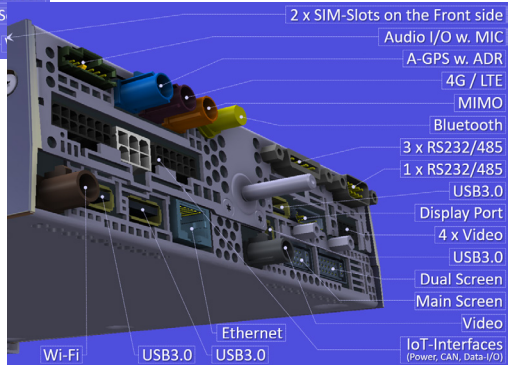### REPLACE CPU –
KEEP OTHER STUFF

- Replace F2 –serial Computer with new FQ-Serial Computer
- Keep Screen, Antennas, Keyboards, etc.
- All Harness-Adapters are included on delivery
- Quick installation

Front side : 2 x SIM-Slots
Audio I/O
3.9G / 4G LTE
A-GPS
4G-modem diversity
Installation Interfaces
4 x RS232/485
1 x RS232/485
USB 3.0
4 x Video
Display Port
Dual Screen
Main S

Wi-Fi (Option)
Bluetooth / MIMO (Option)
X-USB (Ethernet, 3 x USB2.0)

F2 SERIAL

2 x SIM-Slots on the Front side
Audio I/O w. MIC
A-GPS w. ADR
4G / LTE
MIMO
Bluetooth
3 x RS232/485
1 x RS232/485
USB3.0
Display Port
4 x Video
USB3.0
Dual Screen
Main Screen
Video
IoT-Interfaces (Power, CAN, Data-I/O)

Wi-Fi
USB3.0
USB3.0
Ethernet

FQ SERIAL

SUNIT *WorkStation*
MOBILLE RUGGED TOUCH-STATION 55" GORILLA-GLASS SCREEN

SUNIT Workstation is Mobile, waterproof and ruggedized touch computing unit for harsh environmental industry, as Constructions, Mining's, Engineering's etc.
Powerful SUNIT-Computer technology performs even the most demanding 3D-graphical Applications.
GB-Ethernet, Wi-Fi and LTE warrants communication by an appropriate available infra.
Hard coated PCAP Water & Dustproof Screen opens the usability even on most demanding environments.

- 9th Generation Intel® Core™ i7-9700E Coffee Lake
- 8-core, 8 x 2.6GHz (Turbo: 8 x 4.4HGz)
- Intel® UHD Graphics 630
- NVIDIA Quadro P2000 Video with NVIDIA Mosaic
- GPS, LTE, Wi-Fi, Dual GB-Ethernet
- Stereo-Sound & Microphone
- Projective Capacitive (PCAP) touch
- 15-finger Touch technology
- Gorilla-Glass, 60950-1 ball-drop proof, scratch-resistant, edge-to-edge glass
- Touch by Finger / Stylus / Glove (latex)
- Resolution 3840 x 2160 / @60GHz / 4K UHD
- Brightness (cd/m2) 500nits
- Excellent View Angels 89/89/89/89 Degrees
- IPS-LED Backlights for Best Colour & Viewing angles
- IP54, Conformal Coated Electronics
- Easy to move and Stable-stationary
- AC-Powered / 220V

SUNIT

SUNIT SCREENS
RELIABLE TOUCH-SCREEN FOR HARSH DUTIES

- Excellent Wide Viewing Angles
- High-Bright & Super-Bright
- Auto-ambient & Manual Brightness control
- OSD (On-Screen-Display)-technology
- Touch-on-Windows
- Touch-on-OSD
- Touch Interface
- Full Digital LCD TFT Screen
- Smart Powered
- Loud Speakers
- Conformal Coated electronics

	Sunit 7 Wide	Sunit 10	Sunit 12	Sunit 19 Wide	Sunit 12 HD
Type	7,0" Wide TFT	10,4" TFT	12,1" TFT	18,5" TFT	11,6" TFT
Resulution	WVGA (16:9)	XGA (4:3)	XGA (4:3)	W-XGA (16:9)	FULLHD (16:9)
Weight	485 G	1,2 KG	1,6 KG	< 3 KG	1,4 KG
Dimension	183 X 121 X 42	244 X 202 X 46	284 X 237 X 46	475 X 310 X 55	293 X 203 X 36
Interface	FULL DIGITAL INTERFACE, LVDS				FULL DIGITAL INTERFACE, FPD-LINK
User Interface	RESISTE TOUCH SCREEN NON-CLARE				CAPACITIVE MULTI-TOUCH SCREEN
Visibility angle	HORIZONTAL +70° / -70° VERTICAL +60° / -60°	HORIZONTAL +88° / -88° VERTICAL +88° / -88°	HORIZONTAL +88° / -88° VERTICAL +80° / -80°	HORIZONTAL +88° / -88° VERTICAL +80° / -80°	HORIZONTAL +88° / -88° VERTICAL +88° / -88°
Brightness	ADJUSTED BY AUTO AMBIENT CONTROLLED / MANUAL				
Housing	PC/ABS - C2950 V0+UV				
Compliant	ECE 10R-04, ISO-16750, FCC CE				

Sunit-OSD (On-Screen-Display).
The OSD with Touch makes possible for applications outside traditionally O/S environment for e.g. CAN-Bus communications, Messaging, Reversing Camera, etc.
The Screen Adjustments by OSD for Brightness, Contrast and Volume are Screen-Individually.
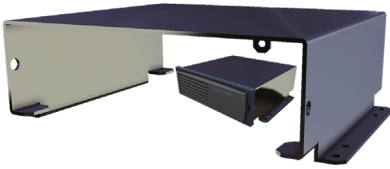
Soft Impact / Sun Cover
For Ergonomics.

12.1" Super-bright 1400NIT Screen
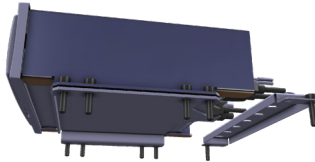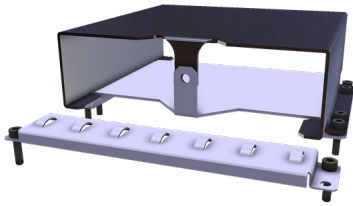**–**
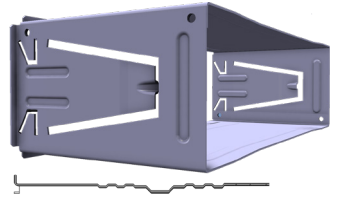**for Luminous-Intensive Conditions.**

Connect SUNIT-Screen on Tablet –
PC / Toughbook as a Dual-Screen!

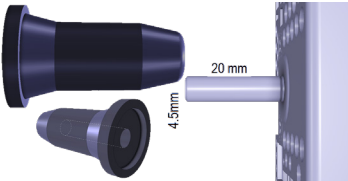## *F-Serial*   *SIDE PARTS*
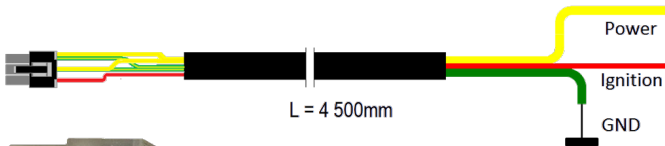
F-Serial CPU-Surface
Mounting Case.
Aluminium.

1-DIN Sized Mounting Fra-
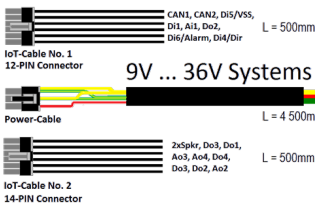me & Removal Tools.
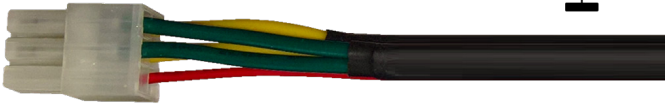Suits for all 1-DIN devices.

Robust CPU-Mounting Kit.
Aluminium.
For installation on
High-Impacting Environments.

20 mm

4.5mm

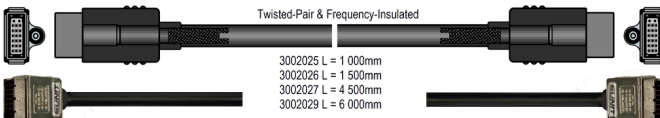Shock Absorber for 1-DIN Sized CPU.
Suits for all 1-DIN devices.

Power

Ignition

GND

L = 4 500mm

9V .. 36V Power Cable harness.

CAN1, CAN2, DiS/VSS,
Di1, Ai1, Do2,
Di6/Alarm, Di4/Dir   L = 500mm

IoT-Cable No. 1
12-PIN Connector

9V ... 36V Systems

Power

Power-Cable

Ignition

L = 4 500mm

GND

2xSpkr, Do3, Do1,
Ao3, Ao4, Do4,
Do3, Do2, Ao2   L = 500mm

IoT-Cable No. 2
14-PIN Connector

Tailored Lengths available

9V .. 36V Power Cable
harness with IoT Harnesses
(CAN, Digital-I/O's, etc.).

Twisted-Pair & Frequency-Insulated

3002025 L = 1 000mm
3002026 L = 1 500mm
3002027 L = 4 500mm
3002029 L = 6 000mm

F-Serial Screen Cable.

SUNIT-WorkBook Tablet-PC for Industry and Field.
High-Brightness Wide-View Touch-Screen technology for demanding environments.

SUNIT   *WorkBook Q8*
QUAD-CORE WINDOWS TABLET-PC

- Intel Atom® Processor X Series x5-Z8350
- Intel HD Graphics 400 (Braswell)
- High-Bright Screen, 850cd LED.
- 5-Point Touch
- Microphone, Audio
- Front & Rear Cameras
- 4g, LTE
- Dual-Band Wi-Fi, BT4.1
- Stereo-Lines, Screen-Audio
- Accurate 72-channles 3D GNNS, ADR
- Vehicles; 9 ... 36V

SUNIT   *WorkBook Q8A*
QUAD-CORE ANDROID TABLET-PC

- 2x 2.0 GHz ARM Cortex-A75
- 6x 1.8 GHz ARM Cortex-A55
- Cores: 8
- ARM Mali Graphics. G52 M, 800 MHz, Cores: 3
- Full support for 2D/3D graphics applications
- 800*1280, 500/800cd/m^2 LED.
- 5-Point Touch
- Microphone, Audio
- Front 5MP & Rear 13MP Cameras
- 4G, LTE
- Wi-Fi5, BT5.0
- Stereo-Lines, Screen-Audio
- Accurate 72-channels 3D GNNS, ADR
- Vehicles; 9 ... 36V

SUNIT   *WorkBook Q8A 5G*
QUAD-CORE ANDROID TABLET-PC

- 2x 2.4 GHz ARM Cortex-A78
- 6x 2.0 GHz ARM Cortex-A55
- Cores: 8
- ARM Mali. G68 MC4, 800 MHz, Cores: 3
- Full support for 2D/3D graphics applications
- 800*1280, 500/1000cd/m^2 LED.
- 5-Point Touch
- Microphone, Audio
- Front 5MP & Rear 13MP Cameras
- 5G, LTE
- Wi-Fi6, BT5.2
- Stereo-Lines, Screen-Audio
- Accurate 72-channels 3D GNNS, ADR
- Vehicles; 9 ... 36V

SUNIT   *WorkBook Q10*
QUAD-CORE WINDOWS TABLET-PC

- Intel Atom® Processor X Series x5-Z8350
- Intel HD Graphics 400 (Braswell)
- High-Bright Screen, 1000cd LED.
- 5-Point Touch
- Microphone, Audio
- Front & Rear Cameras
- 4g, LTE
- Dual-Band Wi-Fi, BT4.1
- Stereo-Lines, Screen-Audio
- Accurate 72-channles 3D GNNS, ADR
- Vehicles; 9 ... 36V

SUNIT   *WorkBook Q10A*
QUAD-CORE ANDROID TABLET-PC

- 4x 2.0 GHz ARM Cortex-A73
- 4x 2.0 GHz ARM Cortex-A53
- Cores: 8
- ARM Mali Graphics. G72 MP3, 800 MHz, Cores: 3
- Full support for 2D/3D graphics applications
- 1280*800, 450/800 NITS
- 5-Point Touch
- Microphone, Audio
- Front & Rear Cameras
- 4G, LTE
- Dual-Band Wi-Fi, BT4.1
- Stereo-Lines, Screen-Audio
- Accurate 72-channles 3D GNNS, ADR
- Vehicles; 9 ... 36V

SUNIT

SUNIT All-in-One Panel-PC for Industry and Fleet.

Fixed-Mount Panel-PC is ideal HMI-Monitor for tough working demands. Low-Voltage technology and Intelligent power management maintains Long-time service and safe Power supply.

## *SUNIT* *AT7*
QUICK-START 4 X 1.6GHz ALL-IN-ONE PANEL-PC

- Open Architecture Computing
- Intel Atom x7-E3950, Apollo Lake, 4 x 1,6 GHz.
- 2D and 3D Graphics
- Touch Screen
- 7" Full Digital LCD Screen
- Loud Speakers
- 72-Channel GPS / GLONASS
- 4G/LTE
- Integrated 3G Gyro
- IGN-Start
- CAN, USB, LAN, Serial Interfaces
- 9 … 36V / Core-Pwr. monitory

SUNIT *SNAP*
IN-VEHICLE DOCKING STATIONS

- Docking Stations for Sunit Workbook Tablets
- Compatible with Windows and Android
- Quick Fix and Release (SNAP)
- Cable Harness with Power & USB for In-Vehicle use
- Self-Powered 9...36VDC
- 2 x USB 2.0 ports
- ING controlled power for smart charging of Tablet and USB ports.
- USB battery charging support up to 1.5A (Front USB port)
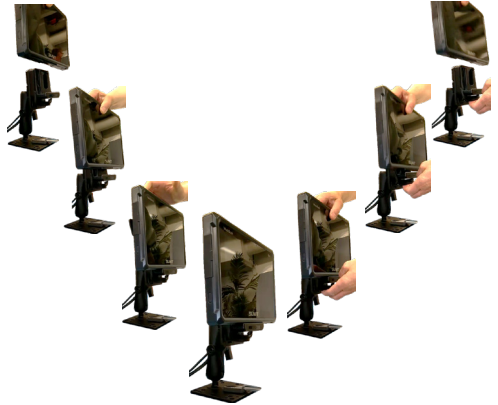
SUNIT *KEY-RACK*
RACK FOR KEYBOARD ON STATIVE

- Keyboard-rack, for Tablet-PC & Screen
- Light-weight, Aluminum

SUNIT

SUNIT   MOUNTING BRACKETS

1" L 60
4-Hole Q-38
4-Hole D 50

1" L 85
4-Hole Q-38
4-Hole D 50

1" L 140
4-Hole Q-38
4-Hole D 50
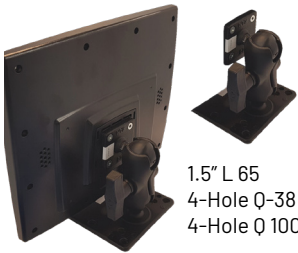
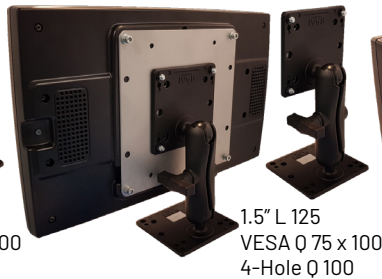1.5" L 65
4-Hole Q-38
4-Hole Q 100
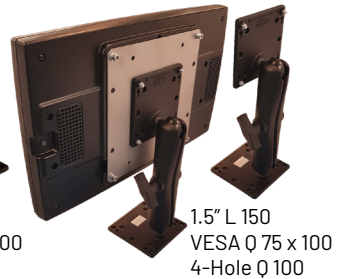
1.5" L 150
4-Hole Q-38
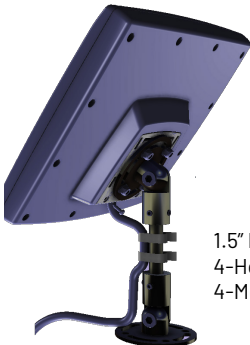4-Hole Q 100

1.5" L 170
4-Hole Q-38
4-Hole Q 100
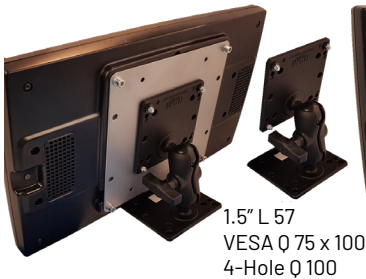
1.5" L 57
VESA Q 75 x 100
4-Hole Q 100

1.5" L 125
VESA Q 75 x 100
4-Hole Q 100

1.5" L 150
VESA Q 75 x 100
4-Hole Q 100

1.5" L 125
4-Hole D 54
4-Mortice D 54

SUNIT IoT Client-Terminal Open-Architecture Computing
Designed for Internet-of-Things on Demanding environments within Industry, Fleet and Machinery.

SUNIT iVia
IoT CLIENT-TERMINAL

- Open Architecture
- Freescale i.MX355 ARM11, @ 532MHz
- GNSS + ADR
- 3G HSPA + Wireless Data
- 3-Axis Accelerometer sensor
- Ethernet & WLAN
- Sunit-TLINK Vehicle-interface Application
- 2 x CAN, Analog & Digital-I/O's, Speed-In
- 9 ... 36V Core-Pwr. Watch-dock
- Status-LED's
    - 4 x Programmable (R/G/R/G)
    - 1 x reserved for MCU

SUNIT Gate-Gear
POE+ INJECTOR FOR INDUSTRY, FLEET & INFRA

- Plug and play PoE+ network devices
- 4 x PoE+ Ethernet port
- 2 x Gigabit Ethernet port
    - 1 x Upstream
    - 1 x Downstream)
- Supplies Downstream-power to
    - PoE, up to 15 W per device
    - PoE+, up to 30 W per device
- Metal enclosure
- Conformal-coated Electronics
- Net-connection up to 100 meters
- For wide operating temperature range of -40 to 75 ºC
- LED indicators confirm PoE and network connectivity
- Individual PoE+ I/O Control from User-application
    - Control via Serial Interface

SUNIT LVDS-Gear
DUAL-SCREENING FOR TABLETS
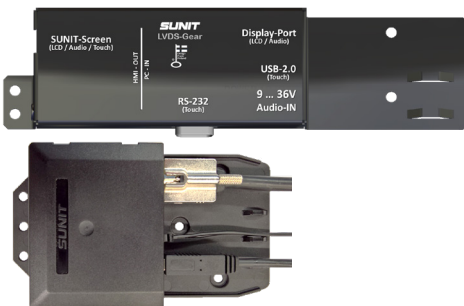
- Connected on USB3.0 or Display-Port Interface
- Transfer of:
    - Graphic
    - Voice
    - Touch
- Self-Powered 9V ... 36V
- Conformal-coated Electronics
- Strain-reliefs for Harnesses
- For Harsh Conditions
- Impact-resist Casing

# SUNIT HD-GEAR
DUAL-SCREENING FOR TABLETS

- Can be connected to DisplayPort or HDMI port.
- USB connection transfers
  - Touch
  - Audio
  - USB-ports available in display
- Self-Powered 9V.....36V
- Conformal-coated electronics
- Strain reliefs for harnesses
- For Harsh Conditions
- Impact resist casing

SUNIT USB-GEAR 4G/LTE MODEM
SELF-POWERED 4G/LTE MODEM WITH GNSS FOR INDUSTRY & FLEET

- 4 x USB2.0
- 1 x RS-232/485 with Configurable Termination
- 4G Modem CAT4 150/50 Mbs
- GPS / GNSS
- Antenna connectors GNSS/LTE/MIMO
- Alarm button input
- Secure chip for customer purposes (Option)
- USB 2.0
- For Harsh Conditions
- Self Powered
- High-Powered Downstream for rough devices
- Compatible with Windows and Linux
- Conformal-Coated Electronics
- Casing: PC/ABS – V0+UV
- Strain-reliefs for Harnesses

SUNIT USB2.0 HUB
## SELF-POWERED FOR INDUSTRY & FLEET
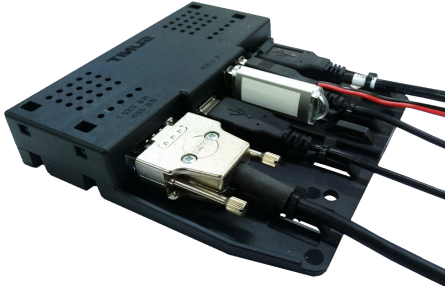
- 3 x USB2.0
- 1 x RS-232/485
- USB-2.0 Upstream
- For Harsh Conditions
- Self Powered
- High-Powered Downstream for rough devices
- Compatible with Windows and Linux
- Conformal-Coated Electronics
- Casing: PC/ABS – V0+UV
- Strain-reliefs for Harnesses

SUNIT USB3.0 HUB
SELF-POWERED FOR INDUSTRY & FLEET

- 3 x USB2.0
- 4 x USB3.0
- USB-3.0 Upstream
- For Harsh Conditions
- Self Powered
- High-Powered Downstream for rough devices
- Compatible with Windows and Linux
- Conformal-Coated Electronics
- Casing: PC/ABS – V0+UV
- Strain-reliefs for Harnesses

![SUNIT]

SUNIT FOX
SUPER-SENSE IR-CAMERA
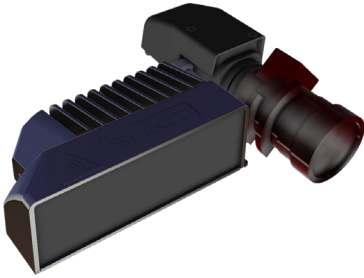
SUNIT-FOX, 1/2" CCD for capturing.
LED-IR's Flashing is Videoframe-synchronized.
It is capable of being controlled via RS-485 Interface.

- Signal type: Composite video/50 fps
- 22.2-6mm Focal Length with 2.7x Zoom
- 1/2" CCD Sensor
- 132° Angle of View
- Auto/Manual White Balance and Exposure, gamma
- Composite video output
- RS-485 Control
- 2.7x optical zoom F1.3 to T360
- Manual focus
- IR-Light Operational Distance 15 m
- LED- IR
- IR-Light Flashes Frame-synchronized

SUNIT SECUR
SUPER-SENSE WATERPROOF CAMERA

Full-HD latest Sony FCB-EV7520A technology.
30X Optical Zoom enables a Long-distance monitoring.

- Full HD (1080/60p) images
- Approx. 2.13 Megapixels
- Day/Night Clear vision
- 12x digital zoom. (360x with optical zoom)
- 30x optical zoom
- 1/1 s to 1/10,000 s, 22 steps Electronic Shutter
- Backlight Compensation
- Autofocus
- E-Flip, Nega Art, Black & White, Mirror image, Color enhancement
- Auto & Manual Exposure Control
- S/N Ratio More than 50 dB
- Pixel-by-pixel Visibility Enhancer and De-fog
- Built-in image stabilizer
- Aluminium Casing

SUNIT SCOUT
HIGH-RESOLUTION SURVEILLANCE CAMERA

Full-HD latest Sony FCB-EV7520A technology.
SUNIT-Camera Application with Pre-settings enables quick one-touch swap between environmental influence.

- Full HD (1080/60p) images
- Approx. 2.13 Megapixels
- Day/Night Clear vision
- 12x digital zoom. (360x with optical zoom)
- 30x optical zoom
- 1/1 s to 1/10,000 s, 22 steps Electronic Shutter
- Backlight Compensation
- Autofocus
- E-Flip, Nega Art, Black & White, Mirror image,
- Color enhancement
- Auto & Manual Exposure Control
- S/N Ratio More than 50 dB
- Pixel-by-pixel Visibility Enhancer and De-fog
- Built-in image stabilizer
- PC/APS Casing

SUNIT

SUNIT MINI-SCOUT
SMALL-SIZE MATERPROOF CAMERA

Small-sized (42 x 42 x 35 mm) Mini-Camera.
Waterproof Mini-camera for Out- and Indoor
surveillance.
- Driver Free USB3.0 cam 2MegaPixels MJPEG
- 50fps 1080P
- Sony IMX291 Sensor
- Support OTG function
- 6mm Lens
- 1920(H)x1080(V)
- 50 fps
- Electronic rolling shutter / Frame exposure
- USB Bus Power

SUNIT R
IR-REVERSING CAMERA

SUNIT-R, Car-Plate IR-Camera.
Day-Around reversing camera.
- Vertically adjustable Camera-Kit
- Strong Infra-Red for Night-Visio
- PAL-Color Camera
- 132° Angle of View
- LED-IR Lights for night visual
- Wire-Connectors as Ordered.
- Harness-Length as Ordered.

SUNIT IC360
INDOOR SURVEILLANCE IR-CAMERA

SUNIT-IC360, Small Indoor Color-Camera.
Discrete-Mounted Indoor Camera.
Life-saving IR-Camera for Public areas and Cabins.
- Image device: 1/4" CMOS
- Picture pixels: 640 x 480
- Signal system: NTSC/ PAL
- Synchronization system: Internal
- Horizontal definition: 420 TV lines
- Minimum illumination: 0.2 lux
- S/N ratio: Better than 45 dB
- Back light compensation: Automatic
- Viewing angle: 120 -170°
- Water-proof grade: IP67
- Video output: 1vpp 75Ω

SUNIT 360
LENS-ROTATING SURVEILLANCE CAMERA
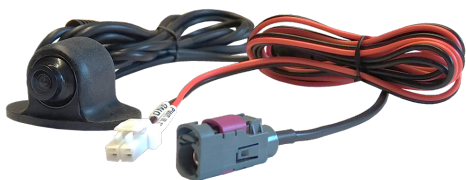
SUNIT-360 mini Surveillance camera. Camera for
areas where the mounting should be invisible and
unnoticeable.
- Anti fog glass.
- Signal system: NTSC/ PAL
- CCD imaging sensor
- 3D noise reduction
- Image Sensor: CCD 7080D TV system
- Horizontal Resolution: 600 TV lines
- View Angle: 150 degree
- White Balance: Auto
- Bright color separation

SUNIT

Rugged Keyboard
FULLY RUGGED COMPOSITE KEYBOARD

- Ruggedized industrial keyboard
- Robust ABS Polycarbonate casing
- IP68 water proof sealed
- NVIS-Compliant Backlit Keyboard
- Industrial silicone Key-Enclosure
- Tactile key feel, key travel 1.0mm
- Multi-touch touchpad (mouse and scroll)
- VESA 75 and AMPS mounting provisions
- 297 x 192 x 22 mm, 0,77kg
- Applications: Medical, Military, Industrial, Fleet

Semi-Rugged Keyboard
KEYBOARD FOR INDUSTRY FLEET AND MEDICS

- Fully Sealed
- LED-Lighted, adjustable
- For Fleet and Industry
- Tactile key feel, key travel 1.0mm
- USB-Connected
- Touchpad
- 373 x 138 x 23 mm – 0,68kg
- Excellent Tactile Key-Feel
- Cable length: Standard 2.0m
- White-coloured for Med's

ACK-540 Mouse-Keyboard
COMMERCIAL MOUSE-KEYBOARD FOR INDUSTRY AND FLEET

- Integrated Touchpad
- Low-profile tactile keys
- Membrane key switches
- Space-saving Design
- Tactile key feel, key travel 1.5mm
- 227 x 289 x 27 mm
- 720g
- USB-Connected
- Cable length: Standard 2.0m
- Layouts – ask availability

ACK-595U Keyboard
COMMERCIAL KEYBOARD FOR INDUSTRY AND FLEET

- Compact design
- Easy typing
- Low-profile tactile keys
- Membrane key switches
- Space-saving Design
- Tactile key feel, key travel 1.5mm
- 291 x 154 x 29 mm
- 580g
- USB-Connected
- Cable length: Standard 2.0m
- Layouts – ask availability

SUNIT

SUNIT Mouse-pad
GLIDEPOINT BY SUNIT QUALITY PROCESS

- Glidepoint Plane Pad
- Industrial
- Sealed
- Multi-touch touchpad (mouse and scroll)
- 86 x 67 x 13 mm , 0,05kg
- Cable length: Standard 1.8m
- Applications: Medical, Military, Industrial, Fleet

SUNIT Wall-Pad
PROGRAMMABLE INDOOR OUTDOOR FIXED-MOUNT KEYPAD

- Sealed 5-button Pad
- Fixed-Mount
- LED-Lighted
- 2 x LED for Signage
- Silicone-Buttons
- Functions-Programmable
- For Bikes, Vehicles, Industry
- USB-Connected
- For Harsh Conditions
- 9 x Æ63 mm
- 0,1kg

SUNIT F-Pad
FINGERTIP-SIGNED KEYPAD

- Programmable
- 5-buttons
- Fingertip-Signs
- USB-Connected
- Fingertip design for dark use
- Sealed
- Cover against Impacts
- Easy to Install
- Small-size 30 x 45 x 15mm

30mm

15mm

45mm

SUNIT S-Pad
EMBEDDED-CONNECTED KEYPAD

- Single-Button
- Digital-I/O -Connected
- Pull-Down active
- Sealed
- Cover against Impacts
- Easy to Hidden-Install
- Small-size 15 x 25 x 10mm

SUNIT

SUNIT   *24-Keypad*
PROGRAMMABLE HANDHELD KEYPAD

- USB-Connected
- Programmable
- Lighted Buttons
- 14 x Single-function Buttons
- 4 x Dual-function Buttons
- 1 x Quad-function Button
- ON/OFF LED
- One-Hand Design
- Stative for FIX-Mount
- 0,1 kg. PC/ABS/V0+UV

SUNIT   *VT-PAD / LITE*
SUNIT Velocity Tracking control units

SUNIT VT-PAD LITE
- Hand-Held Keypad
- USB-Connected
- Lighted Buttons
- One-Hand Design
- Stative for FIX-Mount
- 0,1 kg. PC/ABS/V0+UV

SUNIT VT-PAD
- Hand-Held Keypad
- USB-Connected
- Programmable Lighted Buttons
    - 4x Function Buttons
    - Up/Down Buttons
- One-Hand Design
- Stative for FIX-Mount
- 0,1 kg. PC/ABS/V0+UV

SUNIT

LTE - GNSS ANTENNA

- Multi-Antenna, GNSS + LTE
- GNSS Frequency: 1575.42/1602 MHz, 50Ω
- GPS Passive: 5dBic @ zenith
- GPS Active: 27dB
- LTE Frequency: 790-960MHz / 1710-2690MHz
- Full hemispherical coverage for GNSS and GPS
- Omnidirectional
- Impedance: 50Ω
- Dimension: 50.4 x D18 mm
- Cable: RG-174
- Length 5m, other Lengths available
- FAKRA connectors as standard
- SMA / SMB / Etc. connectors on Order
- Color: Black
- 3M sticker for Indoor installation on Windscreen

- Outdoor Mounting-Kit
- Waterproof
- Rugged material

SHARK MULTI-ANTENNA's

- A multi purpose shark fin antenna
- Alternative Combinations selectable for UHF, GNSS, GPS, 2G/3G/4G, Wi-Fi and DAB-Whip
- Full hemispherical coverage for GNSS and GPS
- Whip Optional
- Impedance: 50Ω
- Dimension 142 x 76 x 66mm (LWH)
- Cable: RG-174
- Length 5m, other Lengths available
- FAKRA connectors as standard
- SMA / SMB / Etc. connectors on Order
- Color: Black

Wi-Fi ANTENNA

- Single band for 2.4 GHz, dual band models for 2.4-2.5 & 4.9 - 6 GHz
- Gain 2.5 dBi
- Voltage standing wave ratio (VSWR) 2:1 over band
- Impedance: 50 Ohm nominal
- Maximum Power: 10 Watts
- Operating Temp: -40o to +85o C
- Built-in ground plane improves high frequency performance
- Cable Harness 3m (other lengths on order)
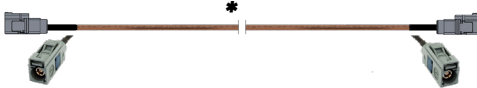- Connector; FAKRA (other connectors on order)

SUNIT

SUNIT CABLES & ADAPTERS
Harnesses & Adapters for Harsh use

VIDEO CABLE
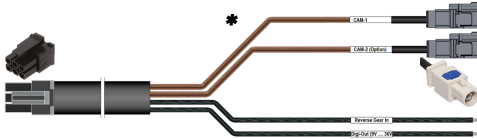
Extension Cable Video Camera
AMP 176284-1 FAKRA

Video Extension Cable
FAKRA - FAKRA

Video Extension Cable
BNC Plug - FAKRA

Cable Coaxial, RG317

SUNIT-Screen
Video Extension Cable
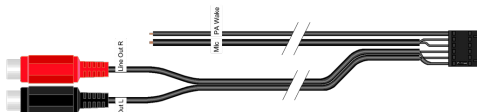Molex- FAKRA

CAM-1

CAM-2 (Option)

Reverse Gear In

Dig-Out (5V ... 36V)

Cable: Coaxial RG317
- Inner Conductor Silver plated copper clad steel
- Shield 95% Silver plated copper braid
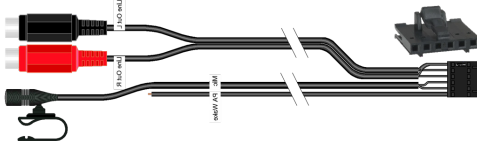- Isolation Dielectric. Operation Temp. –55CO ... +200CO

AUDIO CABLE

Audio Cable
3,5mm Jack - 2xRCA Male

Mic PA Wake

Line Out R

Line Out L

Audio Extension Cable
Tyco - RCA-Female

Line Out L

Line Out R

Mic PA Wake

Audio Extension Cable with
Handsfree Mic.
Tyco - RCA-Female

DISPLAY-PORT CABLE
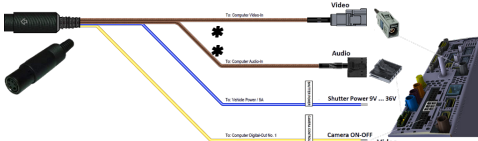
DisplayPort Cable
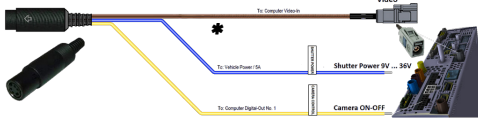Male to Male

Wi-Fi CABLE

Wi-Fi Extension Cable
SMA Female - FAKRA

SUNIT

SUNIT *CABLES & ADAPTERS*
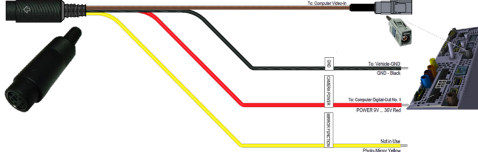**Harnesses & Adapters for Harsh use**

REVERSING CAMERA Cable's

Brigade Reversing Camera Harness for SUNIT Reversing Application Computer Incl. Audio.

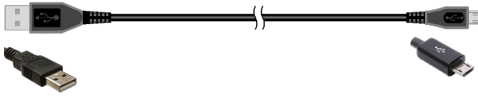Brigade Reversing Camera Harness for SUNIT Reversing Application Computer Excl. Audio.

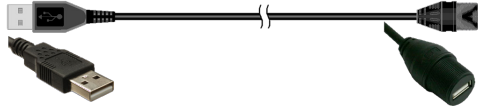Waeco Reversing Camera Harness for SUNIT Reversing Application Computer.

Cable: Coaxial RG317
- Inner Conductor Silver plated copper clad steel
- Shield 95% Silver plated copper braid
- Isolation Dielectric. Operation Temp.

USB EXTENSIONS

USB2.0 Cable
Type-A – Micro-B

USB2.0 Cable
Type-A – A Sealed

USB2.0 Cable
Type-A Male Sealed – 4-PIN Board connector

USB2.0 Dual Extension Cable Panel Mounted Type A Male - Female

ETHERNET CABLE
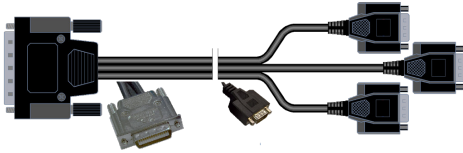

Ethernet Extension Cable
RJ45 – RJ45

Ethernet Extension Cable
RJ45 Plug – RJ45 Female

SUNIT

SUNIT CABLES & ADAPTERS
Harnesses & Adapters for Harsh use

SERIAL EXTENSIONS
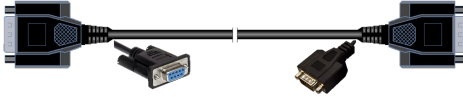
3 x Serial Cable
Multi-connector (DX30/28P) - D9 Male

Wire	Signal
WHITE	RS485−
BROWN	RS485+
GREEN	GND

RS Cable
D9 Female - Dual 3-Wire

Wire	Signal
WHITE	RS485−
BROWN	RS485+
GREEN	GND

RS Cable
D9 Female - Single 3-Wire

RS Cable
D9 Male - D9 Female

ANTENNA EXTENSIONS

Antenna Extension Cable GNSS
SMB Male - FAKRA

Antenna Extension Cable FM-Radio
SMA Female - FAKRA

Antenna Extension Cable Cellular
SMA Female - FAKRA

Antenna Extension Cable GNSS
SMA Female-FAKRA

Antenna Extension Cable UHF
SMA Female – BNC M

Antenna Extension Cable GNSS
SMA Female - FME Male

Antenna Extension Cable UHF
FME Female - BNC Male

Cable: Coaxial RG317
- Inner Conductor Silver plated copper clad steel
- Shield 95% Silver plated copper braid
- Isolation Dielectric. Operation Temp. -55CO ... +200CO

MY NOTES

SUNIT

It's In-Vehicle

WorkBook   Q10a

android ℗9

S-Assist	Calculator	Calendar	Camera	Maps	Navigation
Email	File Manager	Gallery	Video	Messaging	Notes
Contacts	Dev Tools	Downloads	Phone	Gallery	You Tube

16:28 02.12.2020 Tue

SUNIT

®

Design
From
Finland

E17
ECE 10R-05 0020
CE FC
S

ISO 9001
BUREAU VERITAS
Certification
N° FIHSK10299467A

BUREAU VERITAS
1828

√ REACH
2006/121/EC
S

√ RoHS
2011/65/EC
S

WEEE
2002/96/EC
S