15.6 inch Panel PC ViTAM-816BG
Stainless steel housing

- 15.6" TFT LCD, 1366 x 768 pixels
- Without touch function
- Processor: Intel Celeron J6412 (2.0 GHz)
- IP66/IP69K stainless steel housing with M12 connections
- Flush frame design
- Fanless cooling system
- Reading angle horizontal 170°, vertical 160

https://www.wachendorff-prozesstechnik.de/en/vitam-816bg

Description

The ViTAM-8B series is based on an Intel Celeron J6412 (2.0 GHz) processor.
The industrial panel PCs in this series are available in display sizes from 10.1" to 24", with either projected capacitive or resistive touch. The projected capacitive touch enables multi-touch operation with a corresponding operating system. If pressure-sensitive operation is required (e.g. with gloves), the resistive touch is the right choice. The front panels are absolutely flush with the stainless steel housing (type 304). The housing is designed in IP69K (incl. IP66) with M12 connection options. An on/off button is also integrated on the side of the Panel PC. The unique fanless thermal design of the robust stainless steel housing enables effective temperature control. The ViTAM IPC can optionally be equipped with a high-brightness LCD and/or optical bonding for an outstanding display, even under the most difficult conditions.

Product details

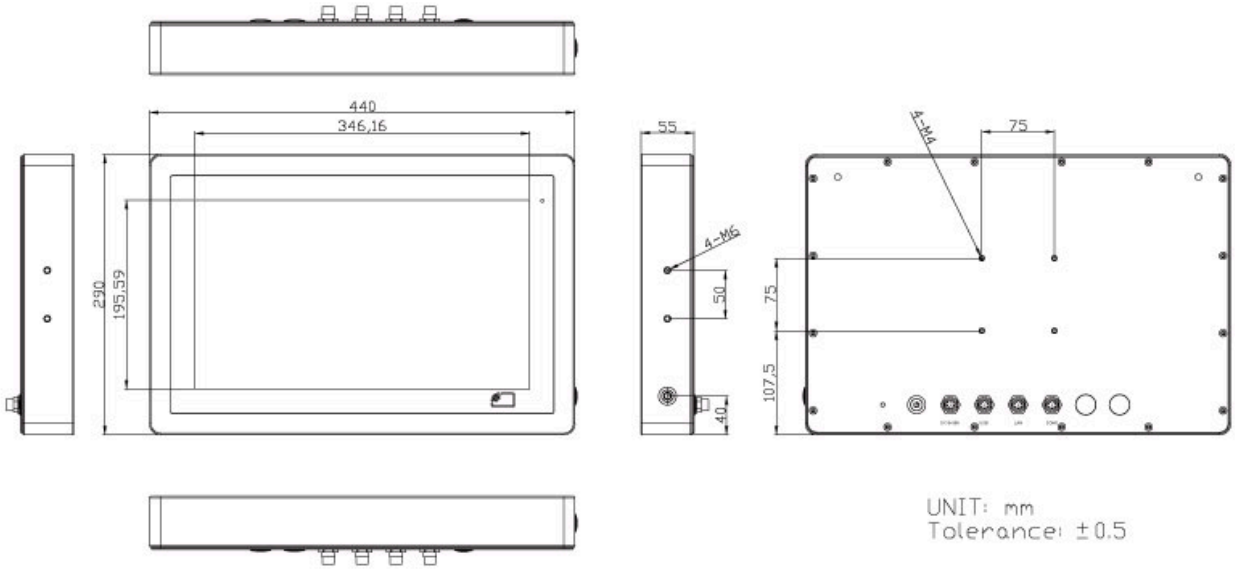
Power supply:	9 VDC to 36 VDC
Power consumption:	max. 32.48 W
Display:	15.6" TFT LCD
Resolution:	1366 x 768 pixels
Aspect ratio:	16:9
Brightness:	400 cd/m² 500 cd/m² (optional) 1000 cd/m² (optional high brightness)
Colors:	16,7 M
Contrast:	500:1 1000:1 (optional)
Reading angle:	H: 170° / V: 160° H: 178° / V: 178° (optional) H: 160° / V: 160°, H: 170° / V: 170° (optional high brightness)
Touch screen:	Without touch function
Processor:	Intel Celeron J6412 (2.0 GHz)
System Chipset:	SoC
RAM:	1 x 260-pin SO-DIMM up to 32GB DDR4 3200MHz
SSD/HDD:	1 x 2.5" SATA3 HDD
Storage space:	1 x M.2 B-Key (SATA 3), standard support for 2242
Interfaces:	USB: 1 x M12 8-pin for USB 2.0 with waterproof termination Serial: 1 x M12 8-pin for COM 1 (RS-232/-422/485, default RS-232) with waterproof termination Ethernet: 1 x M12 A-code, 8-pin, socket (female) for Gigabit Ethernet with waterproof termination Other: 1 x On/Off button (on the side, waterproof) Power supply: 1 x M12, 3-pin for DC with waterproof closure, 1 x on/off switch on the back
Expansion slots:	1 x Mini PCIe slot for 4G/5G module 1 x M.2 E-Key 2230 for WiFi/BT module 1 x Nano SIM card slot
Housing:	Stainless steel (type 304, optionally 316)
Assembly:	VESA mounting 75 x 75 mm, yoke mount (optional)
Protection class:	IP66/IP69K
Weight:	6.83 kg
Dimensions (WxHxD):	440 mm x 290 mm x 55 mm
Ambient conditions:	Operation: 0 °C to +50 °C, optionally -20 °C to 60 °C Storage: -30 °C to +70 °C 10 to 95 % r.h. at 40 °C, non-condensing
Certifications:	CE/FCC class A
Operating systems:	Windows® 10 IoT Windows® 11 IoT
Options:	2 x optional, unpopulated M12 connectors with watertight seal to select two of the following options: 2 x USB 2.0 1 x USB 3.0 1 x LAN 1 x COM RFID module design on the front optional -20 °C to 60 °C
Scope of delivery:	Device 1 x M12 plug-in power supply 1 x M12 USB cable (1x M12 to 2x USB 2.0)
Customs tariff number:	84715000
Manufacturer:	Aplex Technology Inc.

Products Order no.	
ViTAM-816P	15.6" projected-capacitive panel PC, stainless steel

Accessories Order no.	
PPC-D-103	VESA stand stainless steel (type 304) 75 x 75 / 100 x 100
PPC-Y-116	Stainless steel U-shaped monitor holder for ViTAM IPC and displays
PPC-Y-116S	Stainless steel U-shaped monitor holder for ViTAM IPC and displays
ETHSWG5C	5-way Ethernet switch, unmanaged
KABM12ETH3	M12-A to RJ45, shielded, L=3m
KABM12ETH5	M12-A to RJ45, shielded, L=5m
KABM12ETH10	M12-A to RJ45, shielded, L=10m
CKI.68R17.R	Built-in keypad for rear mounting, 68 keys
CKI.85R15.F-TI	Built-in keyboard for front installation, 85 keys, integrated trackball and embossed foil
CKI.85R15.R-TI	Built-in keyboard for rear mounting, 85 keys, integrated trackball
DGI.64Q12.F	Built-in keypad for front installation, 64 keys
DGI.64Q12.F-TI	Built-in keyboard for front installation, 64 keys, integrated stainless steel trackball
DGI.81R17.F-TI	Built-in keyboard for front installation, 81 keys, integrated trackball
DGI.98R17.F	Built-in keyboard for front installation, 98 keys, keypad/number pad with integrated trackball
DGI.98R17.F-TI	Built-in keyboard for front installation, 98 keys, keypad/number pad with integrated trackball
FIT.105E16.F-TP	Built-in keyboard for front installation, 105 keys, integrated touchpad
FIT.105E16.R-TI	Built-in keyboard for rear mounting, 105 keys, integrated trackball
FIT.105E16.T-TI	Desktop keyboard, 105 keys, integrated trackball
FIT.68E16.F-TI	Built-in keyboard for front installation, 68 keys, integrated trackball
FIT.68E16.R-TI	Built-in keyboard for rear mounting, 68 keys, integrated trackball
FIT.68E16.T-TI	Compact keyboard, desktop version, 68 keys, integrated trackball
FIT.68E16.T-TP	Desktop keyboard, 68 keys, integrated touchpad

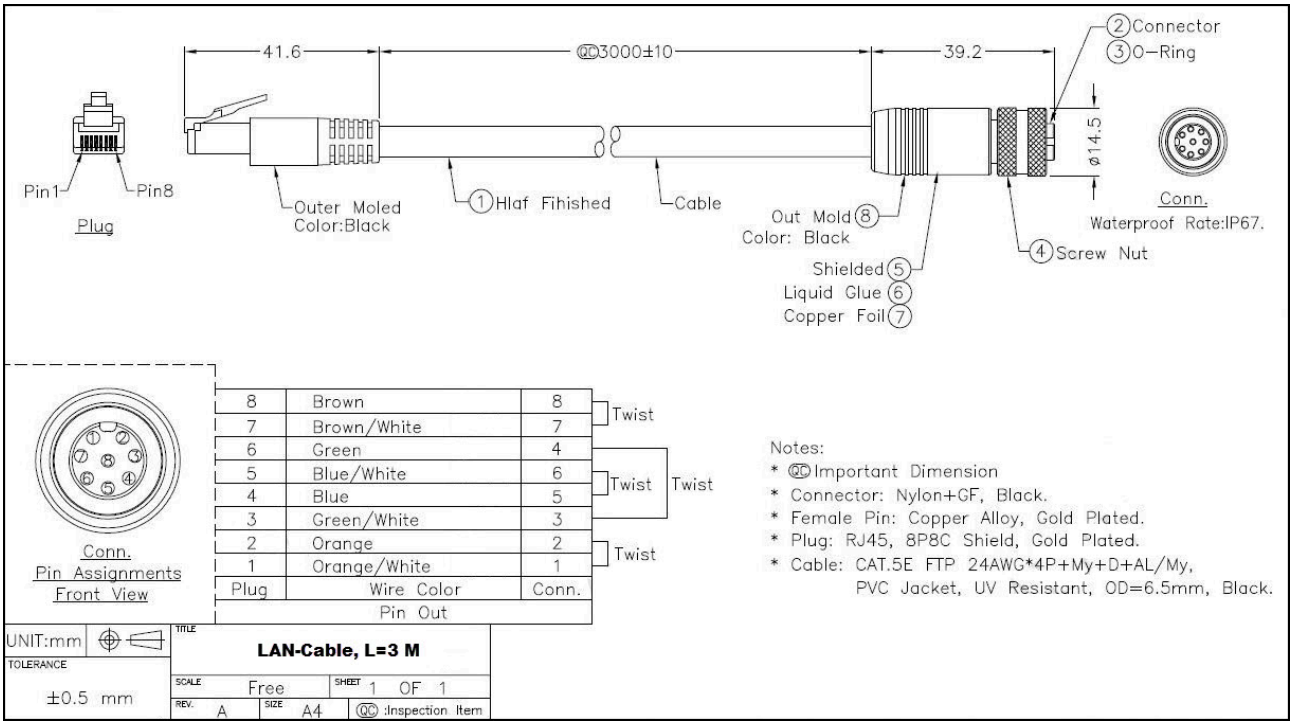
Drawings

Dimensions (mm) and STEP file/viewer:



Drawings

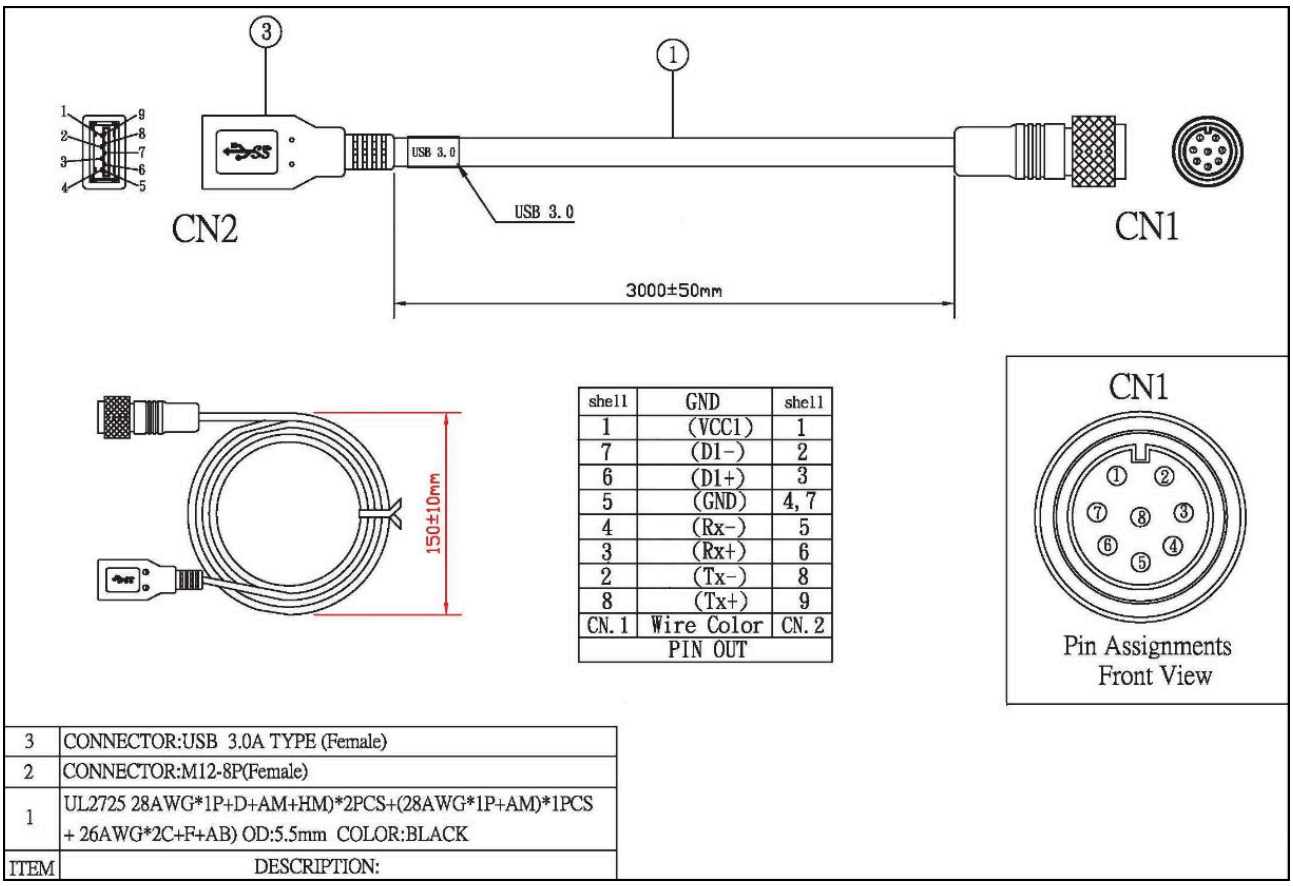
LAN cable



(may not be included in the scope of delivery)

Drawings

USB 3.0 cable



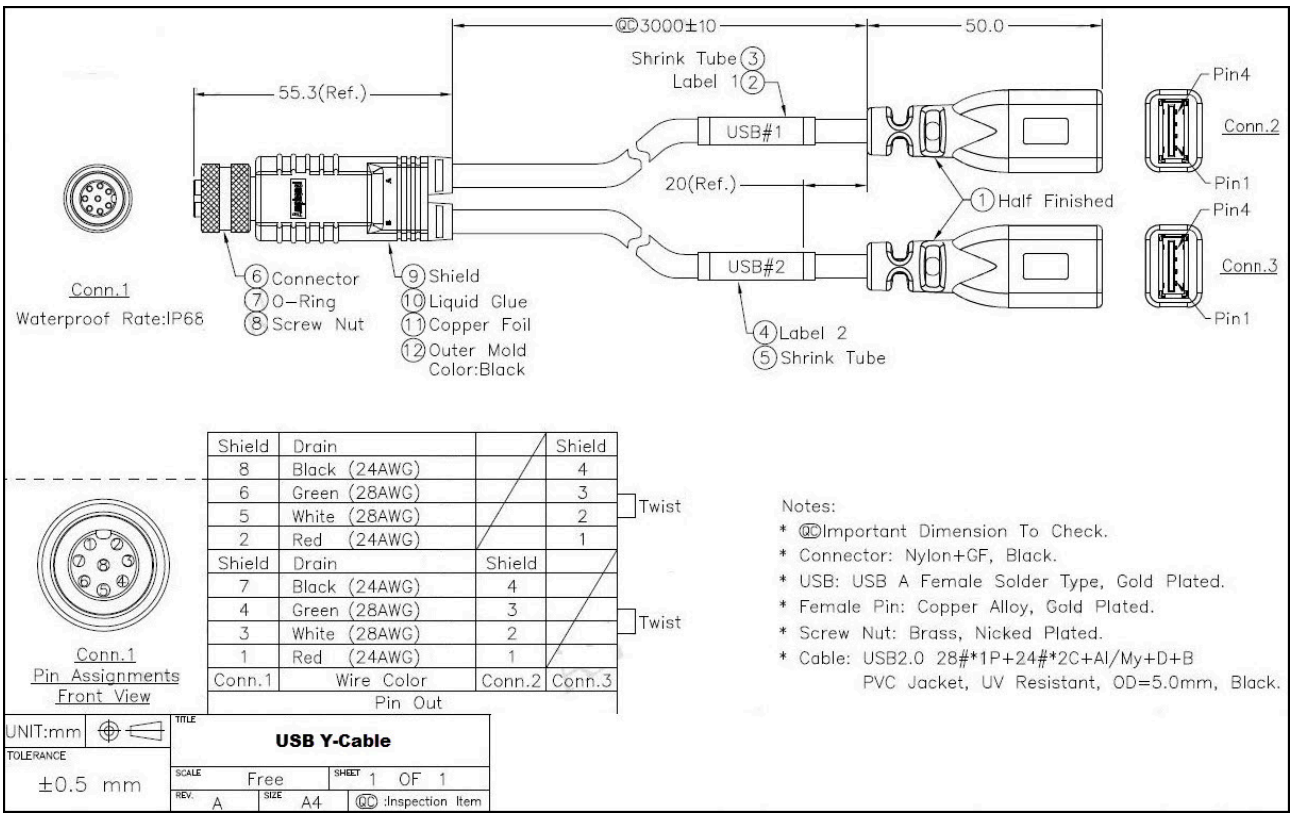
shell	GND	shell
1	(VCC1)	1
7	(D1-)	2
6	(D1+)	3
5	(GND)	4, 7
4	(Rx-)	5
3	(Rx+)	6
2	(Tx-)	8
8	(Tx+)	9
CN. 1	Wire Color	CN. 2
PIN OUT		

ITEM	DESCRIPTION:
3	CONNECTOR:USB 3.0A TYPE (Female)
2	CONNECTOR:M12-8P(Female)
1	UL2725 28AWG*1P+D+AM+HM)*2PCS+(28AWG*1P+AM)*1PCS + 26AWG*2C+F+AB) OD:5.5mm COLOR:BLACK

(may not be included in the scope of delivery)

Drawings

USB Y-cable



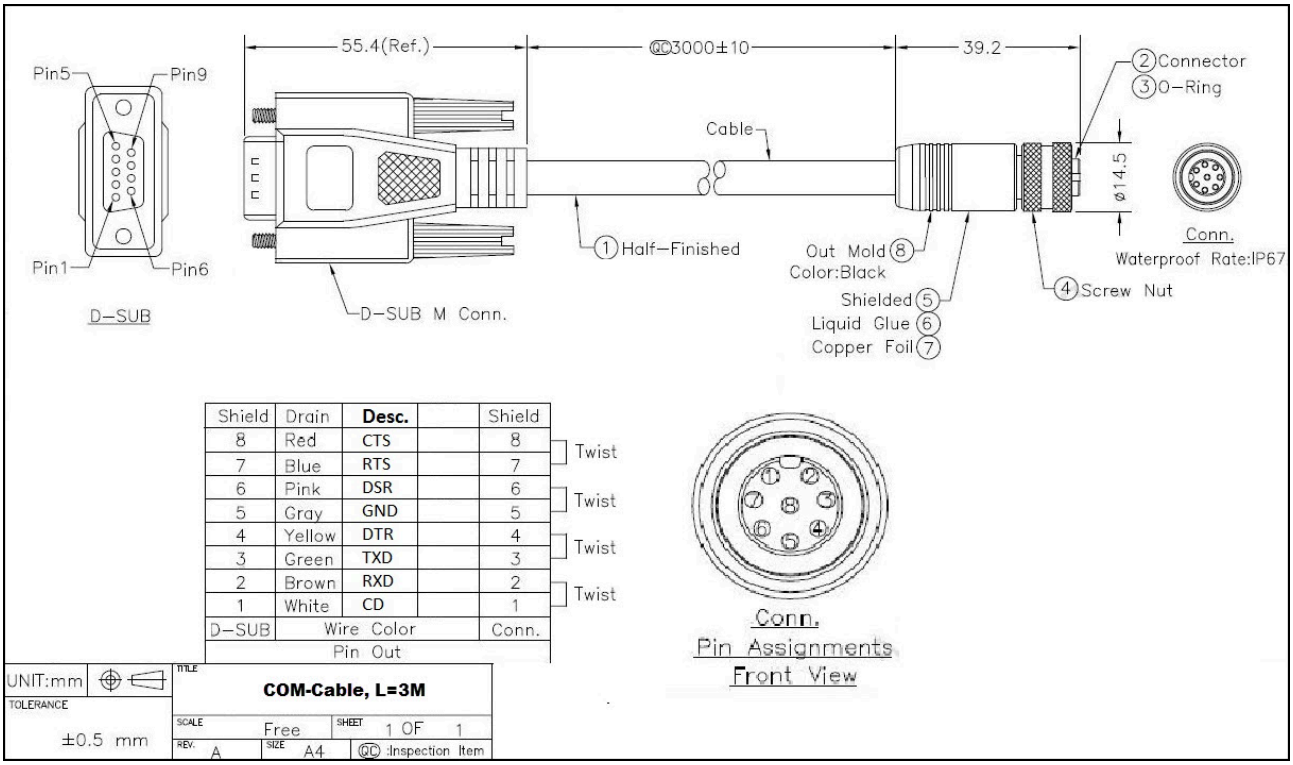
Shield	Drain		Shield
8	Black (24AWG)		4
6	Green (28AWG)		3
5	White (28AWG)		2
2	Red (24AWG)		1
Shield	Drain	Shield	
7	Black (24AWG)	4	
4	Green (28AWG)	3	
3	White (28AWG)	2	
1	Red (24AWG)	1	
Conn.1	Wire Color	Conn.2	Conn.3

Pin Out

(may not be included in the scope of delivery)

Drawings

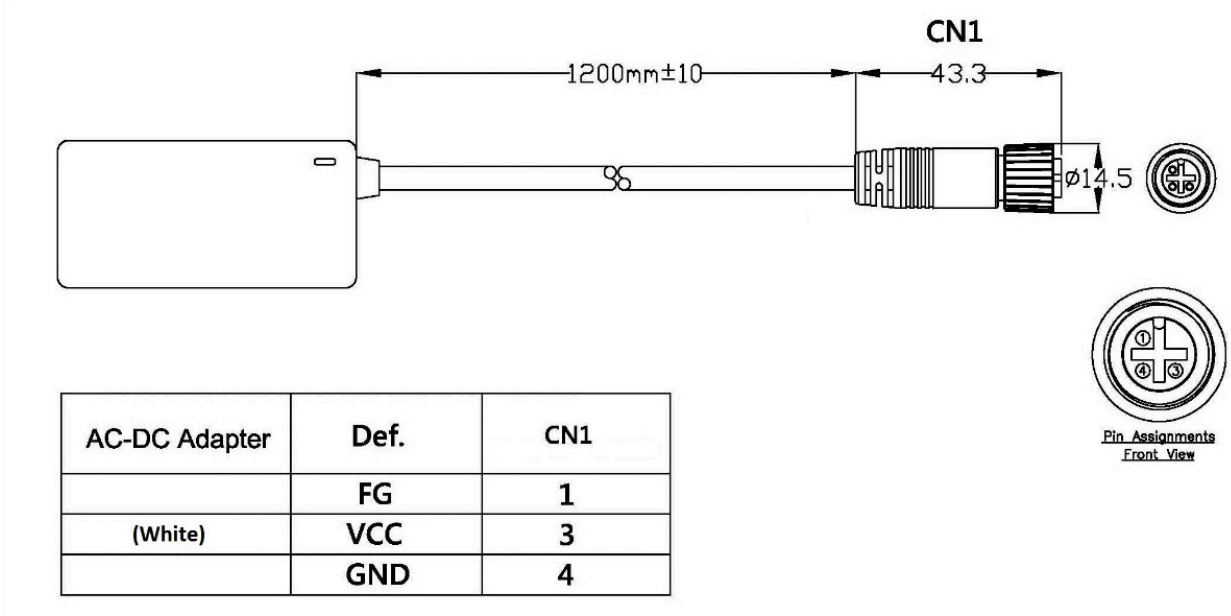
COM cable



(may not be included in the scope of delivery)

Drawings

Power adapter



AC-DC Adapter	Def.	CN1
	FG	1
(White)	VCC	3
	GND	4

(may not be included in the scope of delivery)

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