NEOUSYS TECHNOLOGY

SEMIL-1700 Series Quick Installation Guide

Warning

- Only qualified service personnel should install and service this product to avoid injury.
- Observe all ESD procedures during installation to avoid damaging the equipment.

1 Preparing tools

Unpack the equipment and make sure the following tools are available and delivered contents are correct before you begin the installation procedure.

1-1. User-provided tools

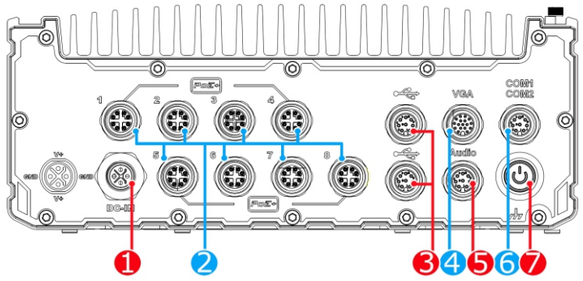
- Anti-static wrist wrap

1-2. Packing List

Item	Description	Quantity
01	SEMIL 1700 series system	1
02	Drivers & utilities disc	1

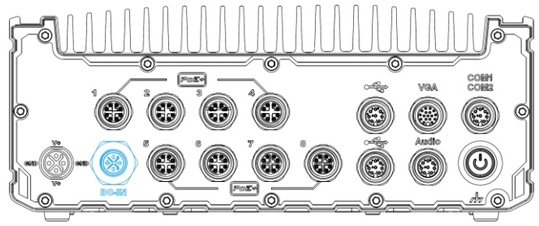
(Optional)

2 Overview



No.	Item	Description	
1	DC input	8V to 48V DC input (M12 S-coded)	
2	PoE+ GbE ports	The M12 X-coded Power over Ethernet (PoE) ports provide both data connection and electric power to devices (eg. IP camera).	
		SEMIL -1704	1x IEEE 802.3at GbE+ port via Intel® I219
		SEMIL -1714J	3x IEEE 802.3at GbE+ port via Intel® I210
		SEMIL - 1708	1x IEEE 802.3at GbE+ port via Intel® I219
		SEMIL - 1718J	7x IEEE 802.3at GbE+ port via Intel® I210
3	USB 2.0 port	The USB 2.0 ports are backward-compatible with USB 1.1 / 1.0.	
		SEMIL -1704	2x USB2.0 (M12 A-coded)
		SEMIL -1714J	
		SEMIL - 1708	4 x USB2.0 (M12 A-coded)
		SEMIL - 1718J	
4	VGA port	VGA output supports resolution up to 1920x1200@60Hz	
5	Audio port	SEMIL-1704/ 1714J: Not applicable SEMIL-1714J/ 1718J: 1x mic-in and speaker-out (M12 A-coded)	
6	COM ports	COM 1 & 2 are RS-232 ports via an M12 A-coded connector	
7	Power button	Use this button to turn on or force shutdown the system.	

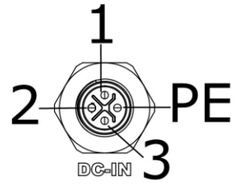
3 DC-IN



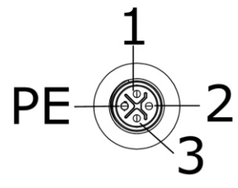
Warning

Please make sure the voltage of DC power is correct before you connect it to the system. Supplying a voltage over 48V will damage the system.

Connector Pin Definition



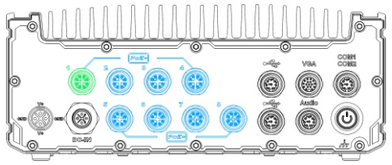
Panel side



Cable connector end

Signal	M12 panel side	M12 cable connector end	Wire color
V+	3	3	
GND	2	2	
V+	1	1	
GND	PE	PE	

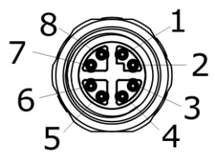
4 PoE+ Gigabit Ethernet Port



The number of ports for each SEMIL-1700 model variant is listed below:

Model No. / PoE+ ports	Port description
SEMIL -1704	1x IEEE 802.3at GbE+ port via Intel® I219
SEMIL -1714J	3x IEEE 802.3at GbE+ port via Intel® I210
SEMIL – 1708	1x IEEE 802.3at GbE+ port via Intel® I219
SEMIL – 1718J	7x IEEE 802.3at GbE+ port via Intel® I210

Connector Pin Definition

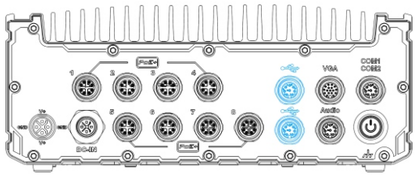


Panel side

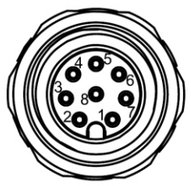
Cable connector end

Signal	M12 panel side	M12 cable connector end	Wire color
LAN P0	1	1	
LAN N0	2	2	
LAN P1	3	3	
LAN N1	4	4	
LAN P3	5	5	
LAN N3	6	6	
LAN N2	7	7	
LAN P2	8	8	

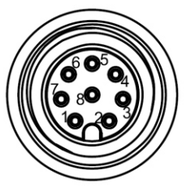
5 USB Port



Connector Pin Definition



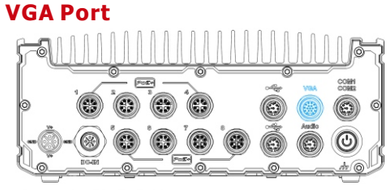
Panel side



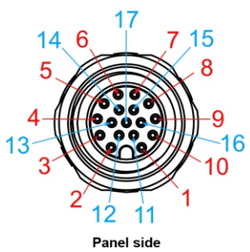
Cable connector end

Signal	M12 panel side	M12 cable connector end	Wire color
D1+	1	1	
D1-	2	2	
VCC_USB	3	3	
GND	4	4	
GND	5	5	
VCC_USB	6	6	
D2-	7	7	
D2+	8	8	

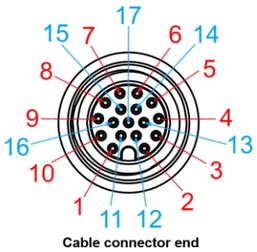
6 VGA Port



Connector Pin Definition



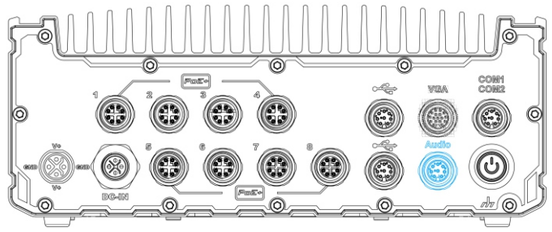
Panel side



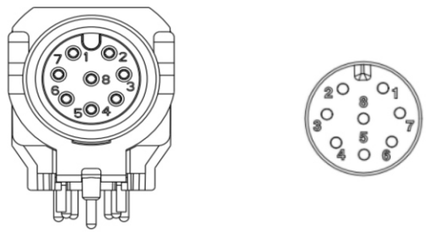
Cable connector end

Signal	M12 panel side	M12 cable connector end	Wire color
Red	1	1	
GREEN	9	9	
BLUE	7	7	
GND	6	6	
GND	8	8	
GND	10	10	
GND	12	12	
GND	13	13	
GND	14	14	
GND	11	11	
GND	16	16	
GND	15	15	
P5V_VGA	17	17	
VGA_SDA	5	5	
HSYNC_CN	3	3	
VSYNC_CN	2	2	
VGA_SCL	4	4	

7 Audio Port



Pin Definition

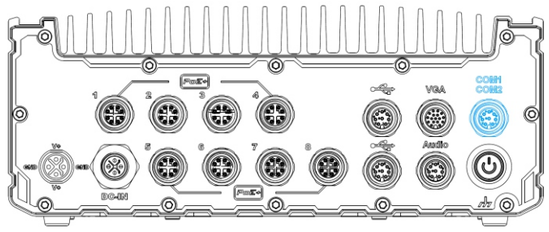


Socket end

Cable side

Signal	M12 Socket end	M12 cable side
Left channel	4	4
Right channel	5	5
Microphone	7	7
Ground	8	8

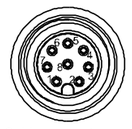
8 Port COM



The system provides two COM ports via an M12 A-coded connector for communicating with external devices. These COM ports are 3-wire RS-232 specifications and provide up to 115200 bps baud rate.

Pin Definition

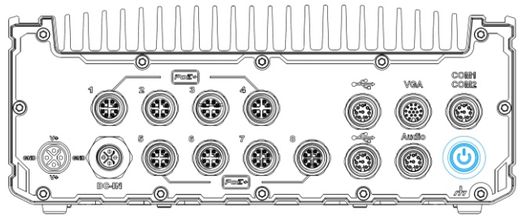
Panel side



Cable connector end

Signal	M12 panel side	M12 cable connector end	Wire color
TXD1	1	1	
RXD1	2	2	
NC	3	3	x
PWR_IGN	4	4	
GND	5	5	
NC	6	6	x
RXD2	7	7	
TXD2	8	8	

9 Power Button



The power button is a non-latched switch for ATX mode on/off operation. To turn on the system, press the power button and the PWR LED should light-up green. To turn off the system, issuing a shutdown command in OS is preferred, or you can simply press the power button. To force shutdown when the system freezes, press and hold the power button for 5 seconds. Please note that there is a 5-second interval between on/off operations (i.e. once the system is turned off, there is a 5-second wait before you can power-on the system).