DCE 2178SMEE Super Mini Ethernet Extender over UTP Installation

The DCE 2178SMEE Super Mini is a revolutionary data transmission device that extends full-duplex high-speed ethernet over existing UTP infrastructures. It extends 10BaseT signals up to 3,000 feet (914m) and 100BaseT up to 2,100 feet (640m). It employs Data Connect innovative and unique Ethernet extension technology that is designed to take full Advantage of high-bandwidth networking cables and maintains a full-duplex of 10 or 100 Mb/s Ethernet connection up to the maximum range with minimum transmission error and latency.

Important Safety Warning

WARNING! - To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture. This apparatus should not be exposed to dripping or splashing and no objects filled with liquids, such as vases should be placed on the apparatus.

WARNING! - This apparatus is a Class I product. This product must be connected to a mains socket outlet thru an AC to DC Power supply.

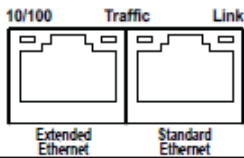WARNING! - The main plug is used as the disconnect device and should remain readily operable.

Application Drawing

IP Camera-end Installation

- If you like to power the unit using a local power supply, connect a 12VDC power supply to the power connector of the 2178SMEE. A power adapter connector is provided to simplify connection. - When using PoE, the camera has to be powered by PoE also.- Connect the IP camera RJ45 connector to the "Standard Ethernet" port of 2178SMEE using a standard Cat5/6 cable of maximum 100 m in length.- Connect one end of the long UTP cable to the "Extended Ethernet" RJ45 connector of 2178SMEE.

The link LED on the 10/100 connector should be "ON" to indicate proper connection between the camera and 2178SMEE.

LED Name	Color	Status	Function
Power	RED	OFF	Power is OFF
		ON	Power is ON
Traffic (Extended Side)	YELLOW	OFF	No Traffic
		FLASHING	Traffic
10/100 BaseT (Extended Side)	GREEN	ON	Connection is OK, 10BaseT Mode
	ORANGE	ON	Connection is OK, 100BaseT Mode
Traffic (Standard Side)	GREEN	OFF	No connection
		FLASHING	Connection is OK with Traffic
Link (Standard Side)	YELLOW	OFF	No connection
		ON	Connection is OK

Ethernet Switch/NVR-end Installation

- If you like to power the unit using a local power supply, connect a 12VDC power supply to the power connector of the 2178MSEE. A power adapter connector is provided to simplify connection.
- When using PoE, the camera has to be powered by PoE also.
- Connect the RJ45 connector of the Ethernet switch to the "Standard Ethernet" port of 2178MSEE using a standard Cat5/6 cable of maximum 328 feet (100 m) in length.
- Connect one end of the long UTP cable to the "Extended Ethernet" RJ45 connector of 2178MSEE
- The link LED on the 10/100 Ethernet connector should be "ON" to indicate proper connection between the switch and 2178MSEE. While the Link LED, Orange for 100BaseT and Green for 10BaseT, in a steady state will indicate confirmed connection between extenders.

Technical Specifications*

Electrical

Ethernet Interface: Standard 10/100BaseT

Ethernet Rate: Auto selectable 10/100 Mb/s

UTP**: 100 Ohm, 3000 feet (914 m) at 10BaseT 2,100 feet (640 m) at 100BaseT

Connectors: Ethernet Interface RJ-45 Connector, Extended Interface RJ-45 Connector, Power IEC380-8 inlet.

Environmental

Humidity: 0 to 95%, non-condensing

Temperature: Operating: -40°C to +75°C,
Storage: -40°C to +80°C.

Mechanical

Dimensions: 0.975in x 1.76in x 2.2 in. (HxWxL)
24.7 x 44.7 x 55.5 mm

Weight: 0.15 lbs., 67 g

Material: Aluminum

Accessories 12 VDC with non-polarized connector

*Specifications subject to change without notice. **Distance figures are obtained using in house testing mirroring installations. Factors such as cabling, connections, use of power and environmental conditions may affect actual distances and should be taken into consideration.

RMA PROCEDURE

Before returning any DCE product, an RMA number must be obtained. Before asking for an RMA number, ascertain that the product was purchased from DCE. If you bought the product from a Distributor or Systems Integrator, the product should be returned to that vendor.

The most convenient method to obtain an RMA authorization for a product purchased from DCE is to submit a request by fill in the form from www.data-connect/returns.htm. Information required must include
-Company name
-Address (including any Mail Stop or specific delivery information)
-Name, contact information, and e-mail address for the technical contact(s) at your company If the above information is on your letterhead, that format is acceptable.

For each item you wish to return, please include:
-The product model number (usually found on the serial number tag)
-The serial number for each item you wish to return
-A description of the problem you are encountering
-The cause of the problem (if known)

A product support specialist may call to verify that the product is properly installed or may ask you to perform tests to insure that the product has actually failed. After reviewing the problem, DCE will assign an RMA number and you will be notified by email or FAX.

The product must be properly packed and returned to:
Data Connect Enterprise .Attn: RMA Technical Support 3405 Olandwood Court, Olney, MD 20832. The RMA number must be legibly displayed on the shipping carton. No RMAs will be issued without a product review. DCE will not be responsible for any product returned without an RMA number.

If you believe the product may be out of warranty, include a method of payment for repairs (either a Purchase Order number or credit card number), card holder name, date of expiration on the RMA request. Repairs currently require 5 working days and are returned UPS second day air.

Contact us by e-mail mspellerberg@data-connect.com or call 301.924.7400 x25 if you should have any questions.