NEXTIVITY
Smarter by Design

Data Sheet

SHIELD EXTEND

Fiber Range Extender

MODEL NUMBERS: MU: F40-0XNU (NU Side); F40-0XCU (CU Side)

Ideal for campuses, multi-building facilities, and high-rises, SHIELD EXTEND Fiber Range Extenders (FRE) increase the distance between the Network Unit (NU) and Coverage Unit (CU) in SHIELD EXTEND public safety DAS nearly one mile. In addition to supporting copper cable to power up CUs remotely, the FREs work in pairs — one NU side and one CU side — with each pair supporting up to two CUs (see system architecture diagram below). The FREs are sold separately.

Features and benefits include:

- Adds Fiber Capabilities to SHIELD EXTEND Installations
- Extends Distance Between NU and CU up to .87 mile
- Flexibility to Implement SHIELD EXTEND in Large Structures, including Campuses, Multi-Building Facilities, and High-Rises
- Hybrid Cable Configuration Compatible (Fiber Optic + Copper)

SHIELD EXTEND
Fiber Range Extender (FRE)
(SFP+ Module Included)

Power-Fiber Only Mode

NU Side	Input port	RJ-45, PoE supply from NU
CU Side	Input port (VDC) (Min/Max)	44 / 55
	Output port (VDC) (Min/Max)	

Power-Hybrid Copper/Fiber Mode

NU Side	Input port	44 / 55
	Output port	
CU Side	Input port (VDC) (Min/Max)	
	Output port (VDC) (Min/Max)	

LEDs

Status	RED ON at power up	=> System is starting
	Flashing GREEN @ 1s period	=> Establishing communication
	GREEN ON	=> Fiber link is established
RJ45 LEDs (per port)	LEDs are off	There is no connection
	YELLOW ON	Cable is connected
	YELLOW and GREEN ON	Data transmission OK

Connectivity

RJ45	2x
Optical (SFP+ module)	Duplex LC Connector
	WIRELESS CPRI COMPLIANT
	6.25 Gb/s 1310 nm Single-mode

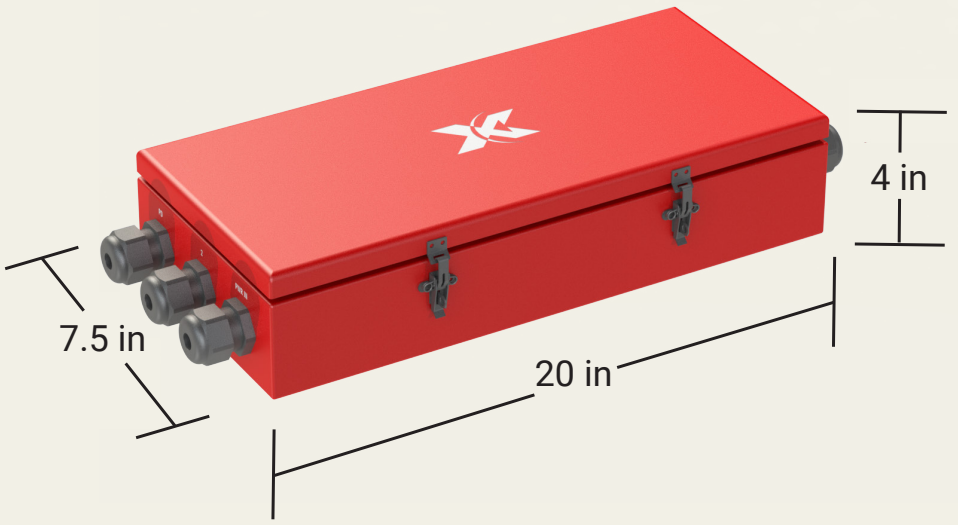
Environmental

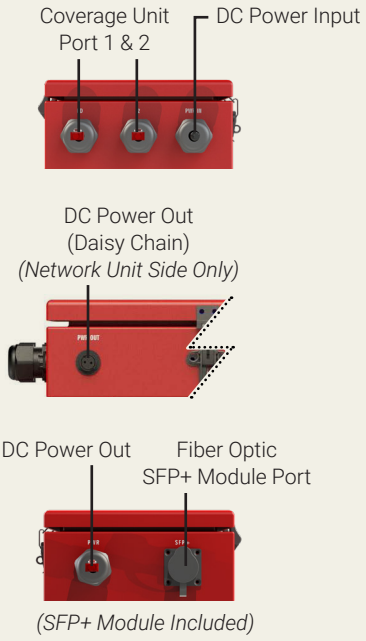
Ambient operating temperature (°F (°C))	32 to 122 (0 to 50)
Non-condensing humidity (%)	0 to 95
Ingress Protection Rating	NEMA 4

Regulatory

FCC	Part 15B, (Class A)
UL	2524

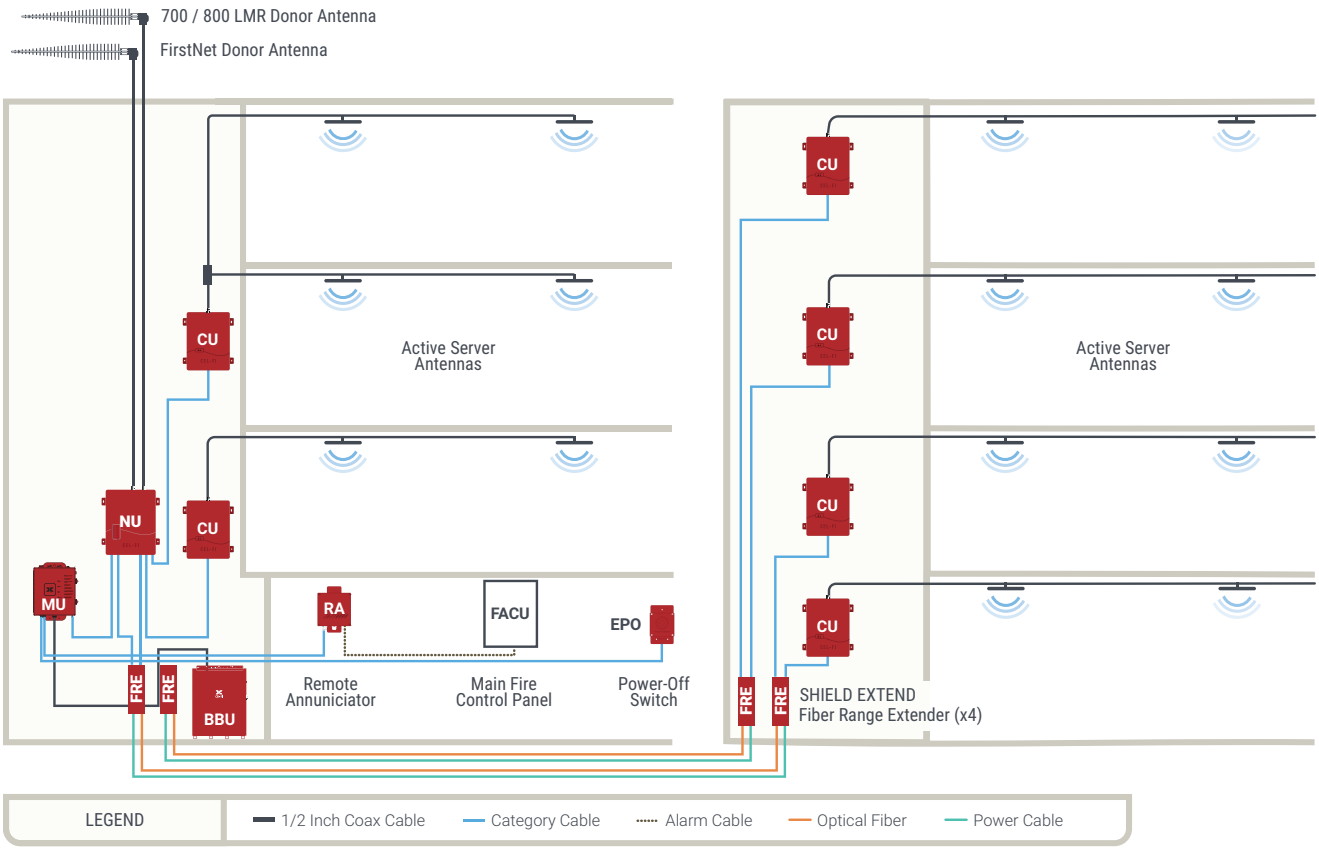
Mechanical Dimensions





Product specifications are subject to change without prior notification.

System Architecture



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nextivityinc.com/shield-extend

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