



ORDERING GUIDE

PTP 850EX



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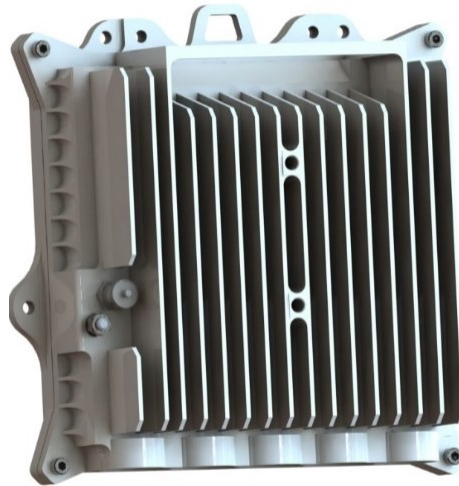
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Introduction

This ordering guide helps navigate the building bill of materials along with antennas, accessories, and software keys. PTP 850EX was launched in May 2024 and is soon available for pre-orders. This new E-band radio delivers 10Gbps (20 Gbps with 2+0 XPIC Roadmap) capacity in a smaller form factor than the existing PTP 850E. The new PTP 850EX is smaller in form factor than the PTP 850E and, most importantly, sets a new price point that your customers find compelling. As of this release, we only support 1+0 configuration. Other configurations such as 1+1 and 2+0 are updated when they become available.



E-Band Radio Applications

E-Band ISP Application

- Capacity injection in distributed cnWave 60/28 GHz distributed networks.
- Service providers can offer 10/20Gbps services to business customers.

E-Band Enterprise Applications

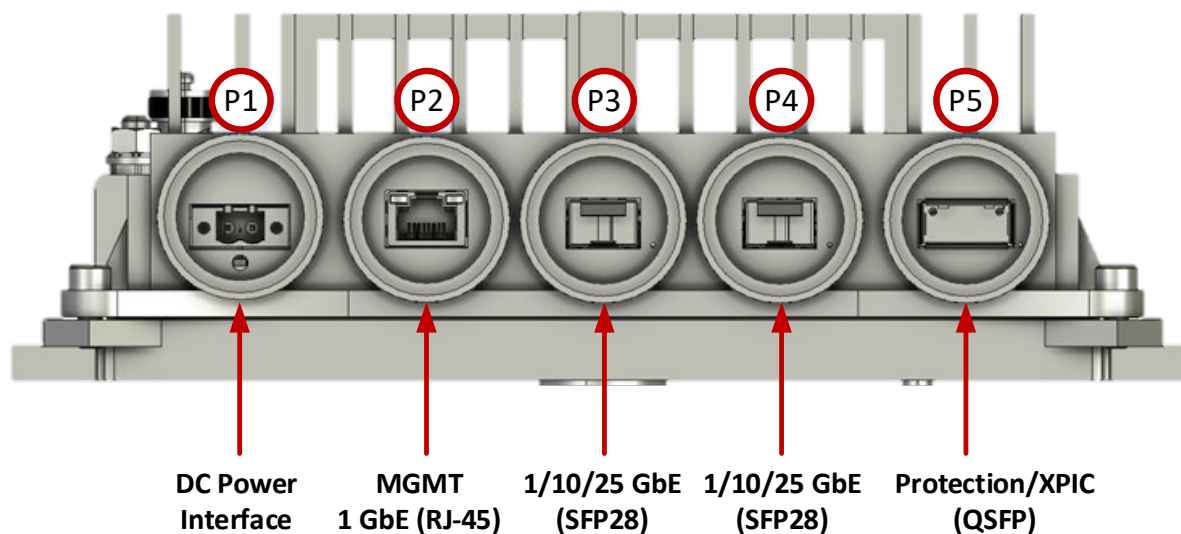
- Building-to-building connectivity.
- Alternative or backup to fiber for protected areas such as historical sites.
- Outdoor Wi-Fi backhaul to parks, campsites, schools, etc.



Note

PTP 850E is not compatible with PTP 850EX and cannot be used together to create a link.

PTP 850EX port design



- **P1** – Power Interface (-48V)
DC Power
- **Port 2 (P2)** (MNG 1/Eth 1): Electric: 100/1000BASE-T RJ-45
Management port
- **Port 3 (P3)**: SFP cage which supports SFP28 standard 1/10/25 GbE Eth traffic (user configurable)
Using standard SFP/SFP+ transceiver
- **Port 4 (P4)**: SFP cage which supports SFP28 standard 1/10/25 GbE Eth traffic (user configurable)
Using standard SFP/SFP+ transceiver
- **Port 5 (P5)**: QSFP (internal) for Protection/XPIC Option for SFP or SFP+ (1 x 1 or 10GbE) with adaptor (1+0 configurations only)
Future use for 1+1 configurations

Ordering Guide Part Numbers

Initially, we cover individual components required for a 1+0 E Band link using PTP 850EX and provide a sample Bill of Materials (BOM) towards the end of the document.

Radios

Cambium Part number	Description
C800085B007A	PTP 850EX Radio, 10Gbps, Lo, TX 71-76GHz, RX 81-86 GHz
C800085B008A	PTP 850EX Radio, 10Gbps, Hi, TX 81-86GHz, RX 71-76 GHz

Power Components

Power supply PTP 850EX supports DC power.

Cambium Part number	Description
N000082L065A	PTP 820 DC Connector

DC Cable: Only 18 AWG & 14 AWG allowed.

Cambium Part number	Description
N000082L019A	PTP 820 Outdoor_DC_cbl_2x18AWG_drum, 305m
N000082L169A	PTP 820 Outdoor_DC_cbl_2x14AWG_drum, 305m

Cable Option

Fiber cable options

Single mode

Cambium Part number	Description
N000082L139A	Optical CABLE, SM, 30m
N000082L140A	Optical CABLE, SM, 50m
N000082L141A	Optical CABLE, SM, 80m
N000082L142A	Optical CABLE, SM, 100m
N000082L143A	Optical CABLE, SM, 150m

Multi-mode

Cambium Part number	Description
N000082L192A	Optical CABLE, MM, 10m
N000082L194A	Optical CABLE, MM, 30m
N000082L196A	Optical CABLE, MM, 80m
N000082L198A	Optical CABLE, MM, 150m
N000082L215A	Optical CABLE, MM, 1m

Ethernet cable Cat6

Cambium Part number	Description
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N000000L155A	CAT6A Outdoor Cable, 100m
N000082L172B	CAT6A Outdoor Cable, 305m

SFP Module

SFP/ SFP+ transceiver supported.

Cambium Part number	Description
N000082L059A	PTP 820 SFP Optical 1000Base-LX, EXT TEMP, 1310 nm, Single Mode
N000082L072A	PTP 820 SFP Optical 1000Base-SX, EXT TEMP, 850 nm, Multi-Mode
N000082L117A	PTP 820 SFP Electric Int 1000Base-T,EXT TEMP
N000082L213A	PTP 820 SFP, single fiber,1490nm Tx/1310nm Rx, SM, EXT TEMP
N000082L214A	PTP 820 SFP, single fiber,1310nm Tx/1490nm Rx, SM, EXT TEMP
N800082L012A	PTP 820 SFP+, 850nm,MM, 10Gbit, Industrial Grade
N800082L013A	PTP 820/850 SFP+, 1310nm,SM, 10Gbit, Industrial Grade

Gland

Cambium Part number	Description
N000082L014A	PTP 820 Glands_x5_KIT
N000082L100A	PTP 820 Glands_x3_KIT

Antenna Options

Cambium Part number	Description
N800082D005A	PTP 820 1' ANT, SP,80GHz, RFU-E TYPE & UG387 - Andrew
N800082D009A	PTP 820 2' ANT, SP,80GHz, RFU-E TYPE & UG387 - Andrew

Software Keys

Cambium Part number	Description
C800082K005A	PTP 820E/850E MMW Act.Key - Capacity 2.5G with ACM Enabled, Per Tx Chan
C800082K007A	PTP 850E Act.Key - Adaptive Bandwidth, Per Tx Chan
C800082K009A	PTP 820/850E Act.Key - XPIC for mmW
C800085K002A	PTP 850E Act.Key - Capacity 5G with ACM Enabled, Per Tx Chan

C800085K003A	PTP 850E Act.Key - Capacity 10G with ACM Enabled, Per Tx Chan
N000082K167A	PTP 820/850 Act.Key - 10GE port

Grounding

Cambium Part number	Description
N000082L116B	Grounding Cable, 1m with M6 ring to M6 ring

Warranty options

Cambium Part number	Description
CCPRM-SUP-PTP850EX80G-1	Cambium Care Prime, 1-year support for one PTP 850EX 80 GHz. 24x7 TAC SLA support, SW updates, and ARAR for HW
CCPRM-SUP-PTP850EX80G-3	Cambium Care Prime, 3-year support for one PTP 850EX 80 GHz. 24x7 TAC SLA support, SW updates, and ARAR for HW
CCPRM-SUP-PTP850EX80G-5	Cambium Care Prime, 5-year support for one PTP 850EX 80 GHz. 24x7 TAC SLA support, SW updates, and ARAR for HW
CCADV-SUP-PTP850EX80G-1	Cambium Care Advanced, 1-year support for one PTP 850EX 80 GHz. 24x7 TAC support, SW updates, and NBDS advance replacement for HW
CCADV-SUP-PTP850EX80G-3	Cambium Care Advanced, 3-year support for one PTP 850EX 80 GHz. 24x7 TAC support, SW updates, and NBDS advance replacement for HW
CCADV-SUP-PTP850EX80G-5	Cambium Care Advanced, 5-year support for one PTP 850EX 80 GHz. 24x7 TAC support, SW updates, and NBDS advance replacement for HW
CCADV-UPG-PTP850EX80G-1	Cambium Care Advanced Add-on to cnMaestro X, 1-year support for one PTP 850EX 80 GHz. 24x7 TAC support, SW updates, and NBDS advance replacement for HW
CCADV-UPG-PTP850EX80G-3	Cambium Care Advanced Add-on to cnMaestro X, 3-year support for one PTP 850EX 80 GHz. 24x7 TAC support, SW updates, and NBDS advance replacement for HW
CCADV-UPG-PTP850EX80G-5	Cambium Care Advanced Add-on to cnMaestro X, 5-year support for one PTP 850EX 80 GHz. 24x7 TAC support, SW updates, and NBDS advance replacement for HW
CCPRO-SUP-PTP850EX80G-1	Cambium Care Pro, 1-year support for one PTP 850EX 80 GHz. 24x7 TAC support, SW updates
CCPRO-SUP-PTP850EX80G-3	Cambium Care Pro, 3-year support for one PTP 850EX 80 GHz. 24x7 TAC support, SW updates
CCPRO-SUP-PTP850EX80G-5	Cambium Care Pro, 5-year support for one PTP 850EX 80 GHz. 24x7 TAC support, SW updates

CCPRM-SUP-RNW-PTP850EX80G-1	Cambium Care Prime, 1-year support renewal for one PTP 850EX 80 GHz. 24x7 TAC SLA support, SW updates, and ARAR for HW
CCPRM-SUP-RNW-PTP850EX80G-3	Cambium Care Prime, 3-year support renewal for one PTP 850EX 80 GHz. 24x7 TAC SLA support, SW updates, and ARAR for HW
CCPRM-SUP-RNW-PTP850EX80G-5	Cambium Care Prime, 5-year support renewal for one PTP 850EX 80 GHz. 24x7 TAC SLA support, SW updates, and ARAR for HW
CCADV-SUP-RNW-PTP850EX80G-1	Cambium Care Advanced, 1-year support renewal for one PTP 850EX 80 GHz. 24x7 TAC support, SW updates, and NBDS advance replacement for HW
CCADV-SUP-RNW-PTP850EX80G-3	Cambium Care Advanced, 3-year support renewal for one PTP 850EX 80 GHz. 24x7 TAC support, SW updates, and NBDS advance replacement for HW
CCADV-SUP-RNW-PTP850EX80G-5	Cambium Care Advanced, 5-year support renewal for one PTP 850EX 80 GHz. 24x7 TAC support, SW updates, and NBDS advance replacement for HW
CCADV-UPG-RNW-PTP850EX80G-1	Cambium Care Advanced Add-on to cnMaestro X, 1-year support renewal for one PTP 850EX 80 GHz. 24x7 TAC support, SW updates, and NBDS advance replacement for HW
CCADV-UPG-RNW-PTP850EX80G-3	Cambium Care Advanced Add-on to cnMaestro X, 3-year support renewal for one PTP 850EX 80 GHz. 24x7 TAC support, SW updates, and NBDS advance replacement for HW
CCADV-UPG-RNW-PTP850EX80G-5	Cambium Care Advanced Add-on to cnMaestro X, 5-year support renewal for one PTP 850EX 80 GHz. 24x7 TAC support, SW updates, and NBDS advance replacement for HW
CCPRO-SUP-RNW-PTP850EX80G-1	Cambium Care Pro, 1-year support renewal for one PTP 850EX 80 GHz. 24x7 TAC support, SW updates
CCPRO-SUP-RNW-PTP850EX80G-3	Cambium Care Pro, 3-year support renewal for one PTP 850EX 80 GHz. 24x7 TAC support, SW updates
CCPRO-SUP-RNW-PTP850EX80G-5	Cambium Care Pro, 5-year support renewal for one PTP 850EX 80 GHz. 24x7 TAC support, SW updates
EW-PTP850EX80G-1	PTP 850EX 70-80 GHz Extended Warranty - 1 Additional Year
EW-PTP850EX80G-2	PTP 850EX 70-80 GHz Extended Warranty - 2 Additional Years
EW-PTP850EX80G-3	PTP 850EX 70-80 GHz Extended Warranty - 3 Additional Years
EW-PTP850EX80G-4	PTP 850EX 70-80 GHz Extended Warranty - 4 Additional Years
AR-PTP850EX80G-0	PTP 850EX 70-80 GHz Upgrade to All Risks Advanced Replacement Program during 1-year standard warranty
AR-PTP850EX80G-1	PTP 850EX 70-80 GHz All Risks Advance Replacement, 1 Additional Year
AR-PTP850EX80G-2	PTP 850EX 70-80 GHz All Risks Advance Replacement, 2 Additional Years
AR-PTP850EX80G-3	PTP 850EX 70-80 GHz All Risks Advance Replacement, 3 Additional Years

AR-PTP850EX80G-4	PTP 850EX 70-80 GHz All Risks Advance Replacement, 4 Additional Years
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Bill of Materials

Bill of Material for 1-foot antenna

Part Number	Description	Qty
C800085B007A	PTP 850EX Radio, 10Gbps, Lo, TX 71-76GHz, RX 81-86GHz	1
C800085B008A	PTP 850EX Radio, 10Gbps, Hi, TX 81-86GHz, RX 71-76GHz	1
C800085K003A	PTP 850E Act.Key - Capacity 10G with ACM Enabled, Per Tx Chan	2
EW-PTP850EX80G-4	PTP 850EX 70-80 GHz Extended Warranty - 4 Additional Years	2
N000082L100A	PTP 820 Glands_x3_KIT	1
N000082L019A	PTP 820 Outdoor_DC_cbl_2x18AWG_drum, 305m	1
N000082L065A	PTP 820 DC Connector	1
N000082L116B	Grounding Cable, 1m with M6 ring to M6 ring	2
N000082L139A	Optical CABLE, SM, 30m	2
N800082L013A	PTP 820/850 SFP+, 1310nm,SM, 10Gbit, Industrial Grade	2
N000082K167A	PTP 820/850 Act.Key - 10GE port	2
N800082D005A	PTP 820 1' ANT, SP,80GHz, RFU-E TYPE & UG387 - Andrew	2

Bill of Material for 2-foot antenna

Part Number	Description	Qty
C800085B007A	PTP 850EX Radio, 10Gbps, Lo, TX 71-76GHz, RX 81-86GHz	1
C800085B008A	PTP 850EX Radio, 10Gbps, Hi, TX 81-86GHz, RX 71-76GHz	1
C800085K003A	PTP 850E Act.Key - Capacity 10G with ACM Enabled, Per Tx Chan	2
EW-PTP850EX80G-4	PTP 850EX 70-80 GHz Extended Warranty - 4 Additional Years	2
N000082L100A	PTP 820 Glands_x3_KIT	1
N000082L019A	PTP 820 Outdoor_DC_cbl_2x18AWG_drum, 305m	1
N000082L065A	PTP 820 DC Connector	1

N000082L116B	Grounding Cable, 1m with M6 ring to M6 ring	2
N000082L139A	Optical CABLE, SM, 30m	2
N800082L013A	PTP 820/850 SFP+, 1310nm,SM, 10Gbit, Industrial Grade	2
N000082K167A	PTP 820/850 Act.Key - 10GE port	2
N800082D009A	PTP 820 2' ANT, SP,80GHz, RFU-E TYPE & UG387 - Andrew	2

Cambium Networks

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Telephone number list	http://www.cambiumnetworks.com/contact-us/
Address	Cambium Networks Limited, Unit B2, Linhay Business Park, Eastern Road, Ashburton, Devon, TQ13 7UP United Kingdom



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