



Total Access 5004

Micro Cabinet

Weather-Resistant FTTx Enclosure



Benefits

- Accelerated time to market for broadband services delivery
- Faster monetization of fiber investments
- Future-proofed design, next-gen 10G PON ready
- Enables rural, last-mile subscriber reach deployments
- Supports both fiber and copper enabling easy migration from legacy services
- Can be mounted on a pole or wall, delivering ultra-low Total Cost of Ownership (TCO)
- Reduces installation cost via flexible powering options (AC or span power)

Overview

The increasing need to enable economic development, e-learning, telemedicine and applications such as smart agriculture is driving service providers and regulatory agencies to promote the need to expand broadband coverage into underserved and remote locations.

The Total Access 5004 (TA5004) and the new Micro Cabinet housing enable service providers to deploy ultra-broadband services using Fiber-to-the-Home (FTTH) or Fiber-to-the-Node (FTTN) architectures quickly and cost effectively. The fiber-fed Micro Cabinet houses a single TA5004 and has fiber and copper subscriber interfaces, enabling delivery of gigabit (GPON), multigigabit (XGS-PON) or ultra-broadband (100Mbps) services for low-density locations, or remote and rural areas.

Flexibility = Network Agility

The FTTH OLTs, the system can support up to 2,048 GPON or XGS-PON subscribers (using two FTTH access modules) to serve both residential and business subscribers. The system also supports up to 96 VDSL2 vectored subscribers (up to 48 subscribers with the VDSL2 Combo card) for FTTN long-ready copper applications. The ability to support both copper and fiber interfaces enables easy migration from legacy to next-generation 10G networks.

Low-Cost, Anywhere Deployment

The Micro Cabinet supports anywhere mounting either on a pole or wall, delivering ultra-low TCO. The enclosure is weather-resistant, corrosion-proof and comes with a heat exchanger to cool the TA5004.

A choice of local AC or remote power via span power is supported, offering flexibility in deployment. The Micro Cabinet is designed for a single-person install, further reducing the cost of installation. This allows for ultra-broadband service deployment within days, instead of months, dramatically lowering deployment costs.

TOTAL ACCESS 5004 MICRO CABINET

Product Specifications

Mechanical

- **Dimensions:** 21.7 in. x 20.45 in. x 10.57 in. (551 mm x 519 mm x 268.5 mm) (H x W x D)
- **Weight:** 35 lbs- 45 lbs. (15-20 kg); depends on fiber or copper configuration
- **Outdoor Mounting:** Pole, Wall
- Two side doors (to access the front or back of the TA5004)

Power

- Power modules utilizes slots 3-4 in the TA5004
 - ◆ Built in Heat Exchanger controller logic.
 - ◆ Requires no Backplane connectivity
- **Local AC Power:** 100-240 VAC, 50/60 Hz
- **Span Power:** 500 Watts @48VDC
 - ◆ Requires LPU solution (optional)
 - ◆ 7ch Alarm LED indicators.
 - ◆ Holdover Cap available (optional)
- DC powering capable via CAP port.
 - ◆ External UPS/BBU (optional)

Environmental

- **Operating temperature range:** -40F to +115F (-40C to +46C) outdoor ambient
- **Storage temperature:** -40F to +185F (-40C to +85C)
- **Relative Humidity:** 5% to 95% non-condensing
- **Environmentally hardened:** Fully sealed, weather-resistant, lightning protection.

Interfaces (in the TA5004)

Access

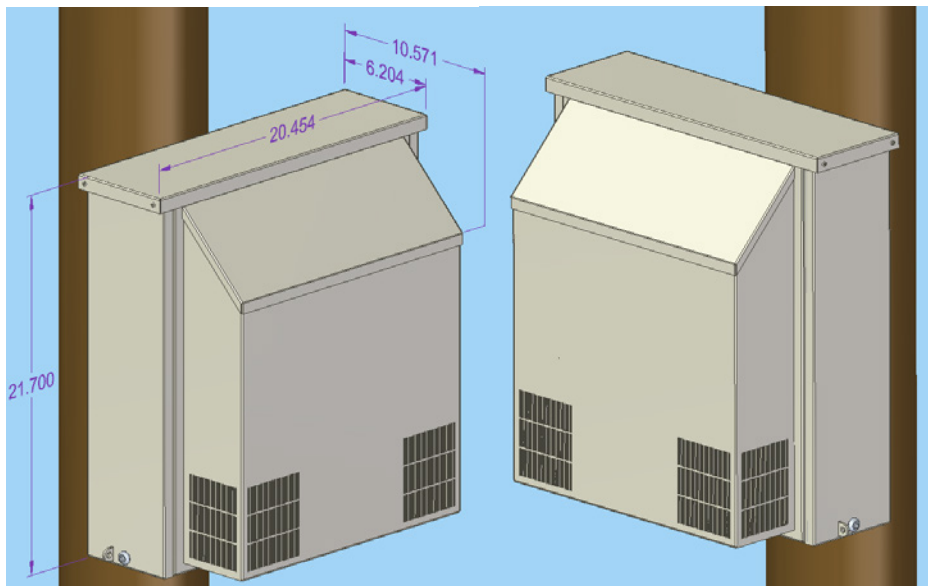
- Two slots available for either FTTP or FTTN
 - ◆ 8-port GPON (up to 2048 subs)
 - ◆ 4-port XGS-PON (up to 1024 subs)
 - ◆ 8-port Combo PON (GPON / XGS-PON) (up to 2048 subs)
 - ◆ ETOS-10
- Alternately, two slots for FTTN (xDSL)
 - ◆ VDSL2
 - ◆ VDSL2 Combo (up to 48 subs)
 - ◆ POTS module
 - ◆ Protector blocks included

Network

- Non-Redundant or Redundant Switching Engines
 - ◆ 2 x 10/1GbE uplinks to each MSM
- Inband or Out-of-Band Management capability

Regulatory Standards

- Applicable sections of GR-487-CORE, Issue 5



Weather-Resistant FTTx Enclosure

Ordering Information

Equipment	Part No.
FTTP	
Micro cabinet (Fiber, AC powered)	4192M54F1AL1
Micro cabinet configured for fiber, span powered	4192M54F1SL1
Micro Power card AC (replacement only, comes with cabinet)	1187061F1
Micro Power card Span (replacement only, comes with cabinet)	1187062F1
FTTN	
Micro cabinet configured for VDSL2 Combo, AC pwr, MS2	4192M54VCAL1
Micro cabinet configured for VDSL2 Combo, AC pwr, 710	4192M54VCAL2
Micro cabinet configured for VDSL2 Combo, Span pwr, MS2	4192M54VCSL1
Micro cabinet configured for VDSL2 Combo, Span pwr, 710	4192M54VCSL2
Micro cabinet configured for VDSL2 Overlay, AC pwr, MS2	4192M54VOAL1
Micro cabinet configured for VDSL2 Overlay, AC pwr, 710	4192M54VOAL2
Micro cabinet configured for VDSL2 Overlay, Span pwr, MS2	4192M54VOSL1
Micro cabinet configured for VDSL2 Overlay, Span pwr, 710	4192M54VOSL2
Protector block 25 position, Combo (1187434F1), MS2 (Upgrade)	1192PPMICRO01L1
Protector block 25 position, Combo (1187434F1), 710 (Upgrade)	1192PPMICRO01L2
Prot block 25 pos, Overlay/Int Spltr (1187432F4), MS2 (Upgrade)	1192PPMICRO02L1
Prot block 25 pos, Overlay/Int Spltr (1187432F4), 710 (Upgrade)	1192PPMICRO02L2



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