

PROJECT:

QTY:

TYPE:

CATALOG:

## SYSTEM OVERVIEW

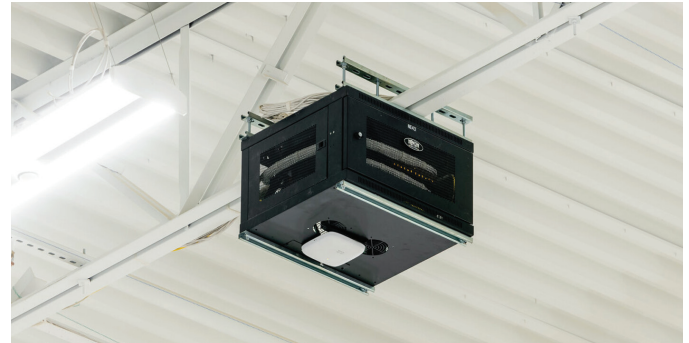
The AGILE-CORE™ Distributed Edge Architecture solution is an intelligent power distribution and control system that leverages safe DC power to provide the best IT and OT networks possible while reducing the total installed and operating cost of a project. AGILE-CORE™ is a hub and spoke architecture where AC or DC power is fed into the HEADEND then converted to safe DC power. The power is then converged with data over fiber to safely distribute power and data to Edge IDFs up to 2000' away. Edge IDFs then distribute power and data again locally to end points such as wireless access points, cameras, clocks, lighting, motion/daylight sensors, motorized shades, USB convenience outlets and more.

## OVERVIEW

The Building Infrastructure Termination System (BITS™) Edge IDF uses a single unified power and data infrastructure to provide modular options of data, lighting and controls, USB charging solutions, shade control, IoT and more. This flexible solution, extends power and control to the edge, substantially decreasing traditional cabling requirements, and creating a future proof infrastructure by providing a robust fiber and copper backbone with 10 GB or more uplink connectivity. The suspended or wall mounted edge IDF significantly reduces the amount of square footage needed to support IT and OT networks. It requires less maintenance, shorter cable runs and ease of system growth over the 50 year life of a commercial or industrial facility.

## ORDERING GUIDE:

Catalog # BT 9US PDM/2 LM/6 LT DW



## FEATURES:

- No local AC Power needed
- Ultra quiet fanless operation allowing use in noise sensitive locations
- NEC Class 2 (LPS) or Class 4 (FMPS) low voltage input power
- Secure suspended or wall mount design reduces space needed to deploy IT & OT end points
- 10GB or more uplink connectivity and power availability exceeding 2000W per BITS™ micro
- Kitted for ease of assembly with UL and ETL listed components
- Works with normal and emergency lighting

## APPLICATIONS:

- K-12 Schools
- Office Buildings
- Warehouse
- Manufacturing
- Data Centers
- Advanced Ed and more

| Family of Edge IDFs | Size              | Power Distribution Module / Qty | USB Power Distribution Module / Qty                       | Layer 2 Network Switch Or Optical Network Terminal / Qty | DC Lighting & Power Controller (DCLP) / Qty | Options                   |
|---------------------|-------------------|---------------------------------|-----------------------------------------------------------|----------------------------------------------------------|---------------------------------------------|---------------------------|
| BT<br>BITS™         | 9US<br>suspended  | PDM                             | 1<br>2                                                    | 1<br>2<br>3<br>4                                         | 1<br>2<br>3<br>4                            | LT<br>Lighted Interior    |
|                     | 9UW<br>wall mount |                                 |                                                           |                                                          |                                             |                           |
|                     |                   |                                 | USB<br>Power<br>Distribution<br>Module for<br>USB Outlets | AT<br>Allied Telesis IE220<br>10GHX 980                  | LM<br>LUUM XS<br>108H                       | DW<br>Door with<br>window |
|                     |                   |                                 | If none, skip to<br>layer 2 network<br>switch             | TL<br>Tellabs ONT205                                     | If none, skip to<br>options                 | CUST CLR<br>Custom Color  |
|                     |                   |                                 |                                                           | CS<br>Cisco IE-3100-8P2C                                 |                                             |                           |
|                     |                   |                                 |                                                           | If none, skip to DCLP<br>selection                       |                                             |                           |

For additional network switches, optical network terminals or lighting and power controllers, please contact your sales representative.  
BITS™ is intended for use with Sinclair Digital's AGILE-CORE™ Distributed Edge Architecture Solution.

## SPECIFICATIONS - ELECTRICAL

## PDM (Power Distribution Module) PDM-FMP-MW2000-F3

|                                            |                                                                                       |
|--------------------------------------------|---------------------------------------------------------------------------------------|
| <b>Input Power Voltage:</b>                | 310 to 350VDC (336 nominal) fault managed power from AGILE-CORE™ HEADEND only         |
| <b># of Input Channels:</b>                | 1-2                                                                                   |
| <b>Input Power Per Channel:</b>            | 1,260W(VA) @ 336VDC / Up to 3.75A                                                     |
| <b>Output Power Voltage:</b>               | 57VDC                                                                                 |
| <b># of Output Ports:</b>                  | 4                                                                                     |
| <b>Total Output Power:</b>                 | 2,016W(VA) @ 57VDC / Up to 35.4A Max Combined Total Load Rating                       |
| <b>Output Ports 1 thru 3 Output Power:</b> | 1,140W(VA) @ 57VDC / Up to 20A Max Each                                               |
| <b>Accessory Output (Port 4) Power:</b>    | 114W(VA) @ 57VDC; Up to 2A                                                            |
| <b>Output Protection Feature(s):</b>       | Constant current limiting with delay shutdown after 3 seconds, re-power on to recover |

## USB PDM (Power Distribution Module for Low Voltage DC USB Outlets) PDM-FMP-MW1000-USB

|                                      |                                                                                       |
|--------------------------------------|---------------------------------------------------------------------------------------|
| <b>Input Power Voltage:</b>          | 310 to 350VDC (336 nominal) fault managed power from AGILE-CORE™ HEADEND only         |
| <b># of Input Channels:</b>          | 1                                                                                     |
| <b>Input Current Per Channel:</b>    | 1,260W(VA) @ 336VDC / Up to 3.75A                                                     |
| <b>Output Power Voltage:</b>         | 36VDC                                                                                 |
| <b>Total Output Power:</b>           | 1,008W(VA) @ 36VDC / Up to 27.8A Max Combined Total Load Rating                       |
| <b># of Output Ports:</b>            | 10                                                                                    |
| <b>Output Power Per Port:</b>        | 100W(VA) @ 36VDC / Up to 2.78A                                                        |
| <b>Output Protection Feature(s):</b> | Constant current limiting with delay shutdown after 3 seconds, re-power on to recover |

## LUUM XS-108H DIRECT CURRENT LIGHTING &amp; POWER CONTROLLER

|                                      |                                                                                                 |
|--------------------------------------|-------------------------------------------------------------------------------------------------|
| <b>Input Power Voltage:</b>          | 57VDC from BITS™micro PDM                                                                       |
| <b>Input Power:</b>                  | 100 to 1000W                                                                                    |
| <b>Output Power Voltage:</b>         | 54VDC                                                                                           |
| <b># of Output Ports:</b>            | (8) IEEE 802.3bt PoE++ / 2 Channel X-PoE ports                                                  |
| <b>Total Output Power:</b>           | 1000W(VA) (2.3A max output per port)                                                            |
| <b>Outputs Per Port:</b>             | 2.3A max per port (each port is split among two separate channels with a 1.15A max output each) |
| <b>Output Protection Feature(s):</b> | automatic resetting overload and short circuit protection                                       |

## ALLIED TELESIS IE220 10GHX 980 LAYER 2 NETWORKING SWITCH

|                                      |                                                           |
|--------------------------------------|-----------------------------------------------------------|
| <b>Input Power Voltage:</b>          | 57VDC from BITS™micro PDM                                 |
| <b>Input Power:</b>                  | 266W(VA) @ 57VDC / Up to 4.67A Max Power Consumption      |
| <b>Output Power Voltage:</b>         | 48 to 54VDC (240W Max PoE Power Budget)                   |
| <b># of Output Ports:</b>            | (8) IEEE 802.3bt PoE++                                    |
| <b>Total Output Power:</b>           | 240W(VA)                                                  |
| <b>Output Protection Feature(s):</b> | automatic resetting overload and short circuit protection |

## TELLABS ONT205 OPTICAL NETWORK TERMINAL

|                                      |                                                                                       |
|--------------------------------------|---------------------------------------------------------------------------------------|
| <b>Input Power Voltage:</b>          | 52-57VDC from BITSmicro PDM                                                           |
| <b>Input Power:</b>                  | 150W(VA) @ 54VDC / Up to 2.78A Max Power Consumption                                  |
| <b>Output Power Voltage:</b>         | 48 to 54VDC (140W Max PoE Power Budget)                                               |
| <b># of Output Ports:</b>            | (5) IEEE 802.3af/at ports / Up to 30W per port / Up to 60W per three high power ports |
| <b>Total Output Power:</b>           | 140W(VA)                                                                              |
| <b>Output Protection Feature(s):</b> | automatic resetting overload and short circuit protection                             |

## SPECIFICATIONS

### ELECTRICAL

#### CISCO IE-3100-8P2C LAYER 2 NETWORKING SWITCH

|                                      |                                                           |
|--------------------------------------|-----------------------------------------------------------|
| <b>Input Power Voltage:</b>          | 57VDC from BITS™micro PDM                                 |
| <b>Input Power:</b>                  | 260W(VA) @ 57VDC / Up to 1.3A Max Power Consumption @48V  |
| <b>Output Power Voltage:</b>         | 48 to 54VDC<br>(240W Max PoE Power Budget)                |
| <b># of Output Ports:</b>            | (8) IEEE 302af/at ports / Up to 30W per port              |
| <b>Total Output Power:</b>           | 240W(VA)                                                  |
| <b>Output Protection Feature(s):</b> | automatic resetting overload and short circuit protection |

### ENVIRONMENTAL:

|                                            |                            |
|--------------------------------------------|----------------------------|
| <b>Operating Temperature:</b>              | 35 ~ +50C                  |
| <b>Storage Temperature:</b>                | -40 ~ +85C                 |
| <b>Relative Humidity (non-condensing):</b> | 20 ~ 90% RH non-condensing |
| <b>Environmental Space:</b>                | Indoor use only            |

Warranty: see general terms and conditions at [sinclair-digital.com](http://sinclair-digital.com)

### MECHANICAL

|                        |                                                                                                                                                                                      |
|------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Standard Color:</b> | Putty black<br>Lockable with removable side panels                                                                                                                                   |
| <b>Dimensions:</b>     | 23.64" L x 23.5" W x 20" Tall                                                                                                                                                        |
| <b>Mounting:</b>       | <ul style="list-style-type: none"><li>• Wall or Suspended via Threaded Rod</li><li>• 9 RU of standard 19" passive rack mountable space</li><li>• Has a capacity of 132 lbs</li></ul> |
| <b>Material Type:</b>  | <ul style="list-style-type: none"><li>• Cold rolled steel (1.2mm) with powder coated finish</li><li>• Four point built-in support brackets for threaded rod or hangers</li></ul>     |

## ACCESSORIES

*Field installable, order as a separate catalog number*

|                          |                                                                 |
|--------------------------|-----------------------------------------------------------------|
| <b>LVDC USBC1 60 W</b>   | Low voltage DC powered decorator outlet - (1) USB A & (1) USB C |
| <b>AT-TQ6702 GEN 2</b>   | Allied Telesis WiFi6 Access Point                               |
| <b>LIGHTING</b>          | AGILE-CORE™ luminaires                                          |
| <b>LIGHTING CONTROLS</b> | AGILE-CORE™ lighting controls                                   |
| <b>POE-DCO-100</b>       | PoE++ 100W Decorator Outlet - (1) USB C                         |
| <b>POE-DCP-65</b>        | PoE++ 65W Decorator Outlet - (2) USB C                          |
| <b>VTEVO-6-LED</b>       | CAT6 Keystone jack 180° w/ LED indicator                        |
| <b>VTEVO-6A-LED</b>      | CAT6A Keystone jack 180° w/ LED indicator                       |
| <b>VTHT-0044-LED</b>     | Crimp tool                                                      |
| <b>VT-0010-LEDPDT</b>    | Power Test Tool                                                 |

PERFORMANCE TABLE

# of Channels of Fault Managed Power Per BITS™

| BITS™ Catalog #              | PDM(s) Max Input Power @ 336VDC | USB PDM Max Input Power @ 336VDC | Total Max Input Power @ 336VDC | # of Input Channels | Recommended Hybrid Cable |
|------------------------------|---------------------------------|----------------------------------|--------------------------------|---------------------|--------------------------|
| BT 9US PDM/1 USB/1 AT/2 LM/4 | 1260W(VA)                       | 1260W(VA)                        | 2520W(VA)                      | 2-3                 | HYB ISP FMP16 4P OS2 6F  |
| BT 9US PDM/3 LM/8            | 3780W(VA)                       | -                                | 3780W(VA)                      | 3-6                 | HYB ISP FMP16 8P OS2 6F  |

AGILE-CORE POWER DISTRIBUTION AND CONTROL SYSTEM

