

HIGH POWER ENTERPRISE DAS MASTER

136 - 512 MHz

DH14 Series

Product Features

- Specifically designed for LMR and Public Safety Applications
- No need of "Front End BDA" or "POI", reduced infrastructure cost
- Channelized
- Programmable uplink squelch (per channel and time slot) for reduced UL noise contribution
- Software programmable channel selective or band selective operation, suitable for highly congested RF environments
- Centralized operation, single point of access
- AGC per channel and time slot
- Supports Over The Air (OTA) operation
- NFPA Compliant
- Preserves BTS Rx sensitivity
- Works with Enterprise DAS Remotes (A Series)
- Signal Booster functionality, TO MOBILE RF Port available
- IFC 2015, 2018, 2021 Edition
- NFPA 72 2013 Edition, NFPA 1221 2016 2019 Edition
- UL2524 2nd Edition Listing with SGS, Nationally Recognized Testing Laboratory (NRTL) approved by OSHA for UL2524. (Listing Pending)
- Buy American Compliant: Meets the definition of Domestic Construction Material under the Buy American Act



Applications

- For P25 Ph1, P25 Ph2, DMR, TETRA, TETRAPOL, C2000, NXDN and Conventional Systems
- Indoor: tunnels, buildings, subways, airports, among others
- Outdoor: stadiums, canyons, dense urban areas, remote rural towns

Specifications

| Specifications | Value |
|--------------------------------|---|
| Fiber Optic | Single mode |
| WDM | Yes |
| Optical wavelengths | 1310 / 1550 nM |
| Operational bands | 136 - 174 MHz & 450 - 512 MHz |
| Number of channel filters | 32 UL - 32 DL + 2 Bandwidth adjustable per band |
| Available channel filter BW | 150 KHz, 100 KHz, 75 KHz, , 62.5 KHz, 50 KHz, 37.5 KHz, 25 KHz & 12.5 KHz |
| Group delay | Channel Selective 150KHz, 11.5µS Channel Selective 100KHz, 13.5µS Channel Selective 75KHz, 16.0µS Channel Selective 62.5KHz, 18.0µS Channel Selective 50KHz, 21.0µS Channel Selective 37.5KHz, 25.5µS Channel Selective 25KHz, 35.0µS Channel Selective 12.5KHz, 61.5µS or Band selective: 3.5 to 6.5µS, depending on BWA |
| Supported Fiber Loss | 5 dBo max |
| Optical return loss | >45dB |
| RF Input/Output Impedance | 50Ω |
| Max Operational DL Input Power | -35dBm |
| DL manual attenuator | 20dB in 1dB steps |
| Maximum UL output power | +24 dBm per band |
| UL IM and spurious generation | < -13dBm |
| UL manual attenuator | 20dB in 1dB steps |
| Overall Gain (Master + Remote) | 80dB |
| RF connectors | N(f) |

DOC BD423.02 - 10202021 - DMC
 Fiplex is a registered trademark of Fiplex Communications, Inc.
 Fiplex Communications, Inc. reserves the right to change specifications without prior notice.

HIGH POWER ENTERPRISE DAS MASTER

136 - 512 MHz

DH14 Series

| | |
|-------------------------|----------------------------------|
| Optical connectors | FC / APC |
| Number of optical ports | 4 |
| Noise figure | <9dB |
| Power Supply | 110VAC 60Hz or +24/-48VDC |
| Power consumption | 210W |
| Housing | IP67 / NEMA4X |
| Environmental | EN 300 019 4.1 |
| Temperature range | -22° to +131° F • -30° to +55° C |
| Humidity | <95% non condensing |
| Dimension and weight | 30x24x16 in • 45 kgr |
| MTBF | >50,000 hours |

| Signal Booster Specifications | Value |
|--|----------------------------|
| RF Ports | To Base & To Mobile |
| Operational bands | VHF + UHF |
| Number of band pass (TO MOBILES Port) | One per band |
| Bandwidth (TO MOBILES Port) | Full band |
| Composite Output Power, DL (TO MOBILES Port) | VHF: 30 dBm UHF: 37 dBm |
| Overall Gain | 80 dB |

| Control and Alarms | Value |
|---------------------------|---|
| Alarms report | Via Master Unit Local: USB (POWER STATUS, MU STATUS, RM STATUS) Remote: SNMP (Ethernet) |
| Master Unit Configuration | Local: USB or Ethernet (Web browser) Remote: Via SNMP or Web browser |

| Normative | Value |
|-----------|--|
| Standards | ITU T G 652 EN60825-1 |
| FCC | FCC, CFR 47, Part 15, Subpart B, Class A digital devices |
| FCC ID | P3TDH14-9A |

DOC BD423.02 • 10202021 • DMC
 Fiplex is a registered trademark of Fiplex Communications, Inc.
 Fiplex Communications, Inc. reserves the right to change specifications without prior notice.

ENTERPRISE DAS MASTER

136 - 512 MHz

DH14 Series

| DH14E [PWR] | - [TYPE] | - A [BAND] | - [FILTERING VHF] | [FILTERING UHF] | -3037 |
|--|--|---|--|---|-------|
| A: AC D: DC | E4: ENTERPRISE MASTER 4 OPTICAL PORTS | VU: 136-174+450-470 VT: 136-174+470-512 VUT: 136-174+450-512 | ND: NO DUPLEX 20: 2MHz BW 35: 3MHz BW | ND: NO DUPLEX | |
| | | | | 07: 0.7MHz BW - Band U 450-470MHz | |
| | | | | 07: 0.7MHz BW - Band T 470-512MHz | |
| | | | | 20: 2.0MHz BW - Band U 450-470MHz | |
| | | | | 20: 2.0MHz BW - Band T 470-512MHz | |
| | | | | 40: 4.0MHz BW - Band U 450-470MHz | |
| | | | | 15: 1.5MHz BW - Band T 470-512MHz | |
| | | | | 50: 5.0MHz BW - Band L 380-430MHz | |
| | | | | 50: 5.0MHz BW - Band U 450-470MHz | |
| | | | | MDA: 453-454/458-459 & 460-462/465-467MHz | |
| | | | | WMO: 489-491/492-494 & 496.3-497/499.3-500 MHz | |
| | | | | RWC: 483.4-484.5/486.4-487.5 & 488.5-489/491.5-492 MHz | |
| | | | | 2020: Dual sub band 2.0MHz BW each - Band U 450-470MHz | |
| | | | | 0740: Dual sub band 0.7 and 4.0MHz BW each - Band U 450-470MHz | |
| | | | | 0707: Dual sub band 0.7MHz BW each - Band T 470-512MHz | |
| | | | | 1515: Dual sub band 1.5MHz BW each - Band T 470-512MHz | |
| | | | | 0715: Dual sub band 0.7 and 1.5MHz BW each - Band T 470-512MHz | |
| 2007: Dual sub band 2.0MHz BW in Band U 450-470MHz and 0.7MHz BW in Band T 470-512MHz | | | | | |
| 2015: Dual sub band 2.0MHz BW in Band U 450-470MHz and 1.5MHz BW in Band T 470-512MHz | | | | | |
| 2020: Dual sub band 2.0MHz BW in Band U 450-470MHz and 2.0MHz BW in Band T 470-512MHz | | | | | |

* Only one filter option per band