

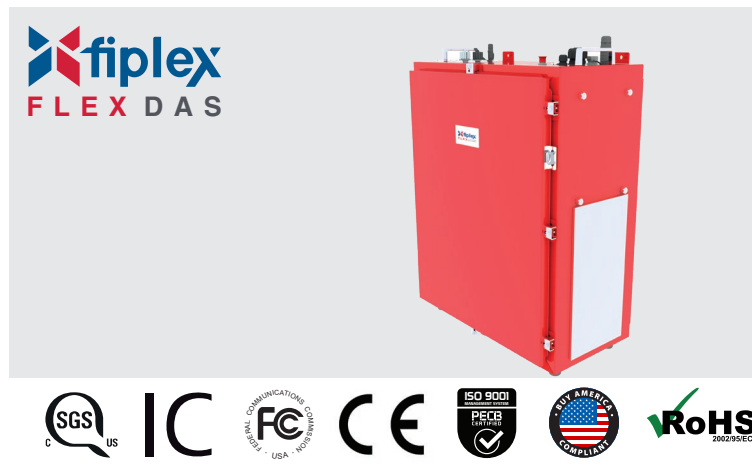
# ENTERPRISE DAS MASTER

## 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
- Preserves BTS Rx sensitivity
- Works with Enterprise DAS Remotes (A Series)
- Signal Booster functionality, TO MOBILE RF Port available
- UL2524 2nd Edition Listing with SGS, Nationally Recognized Testing Laboratory (NRTL) approved by OSHA for UL2524
- IFC 2015, 2018, 2021 Edition
- NFPA 72 2013 Edition, NFPA 1221 2016 2019 Edition



### 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

### 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<br>Channel Selective 100KHz, 13.5µS<br>Channel Selective 75KHz, 16.0µS<br>Channel Selective 62.5KHz, 18.0µS<br>Channel Selective 50KHz, 21.0µS<br>Channel Selective 37.5KHz, 25.5µS<br>Channel Selective 25KHz, 35.0µS<br>Channel Selective 12.5KHz, 61.5µS<br>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)                                                                                                                                                                                                                                                                                                                                              |

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|                         |                                  |
|-------------------------|----------------------------------|
| Optical connectors      | FC / APC                         |
| Number of optical ports | 4                                |
| Noise figure            | <9dB                             |
| Power Supply            | 110VAC 60Hz & +24/-48VDC         |
| Power consumption       | 100W                             |
| 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    | 30x24x12 in • 35 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: 24 dBm<br>UHF: 30 dBm |
| Overall Gain*                                 | 80 dB                      |

### Control and Alarms

### Value

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

### Normative

### Value

|           |                                                          |
|-----------|----------------------------------------------------------|
| Standards | ITU T G 652<br>EN60825-1                                 |
| FCC       | FCC, CFR 47, Part 15, Subpart B, Class A digital devices |
| ETSI      | EN301489-1; EN301489-18<br>EN60950-1; TS 101 789-1       |

\* Value valid for non duplexed units. This value can change depending on the filtering insertion loss of the duplexer.

# ENTERPRISE DAS MASTER

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## DH14 Series

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