

TERRA's series of wideband fibre transmitters are part of the TERRA 400 series headend and fibre equipment range. They are suitable for both Free to air (FTA) and single wire (SMS) pay-tv satellite solutions. Available in both 1310 and 1550nm range with single +6dBm or dual +6dBm fibre outputs.



### Features and Benefits

- » These units offer high power output at +6dBm extending your design reach and using between 1310nm to 1550nm wavelength
- » LAN control offers WEB monitoring and management of the device (selected models)
- » Uses the industry-standard connector SC/APC for optical connection
- » LAN control connector is the RJ45 industry-standard connector
- » Mounts on the TERRA AT series 19" IRU frame
- » Complimenting these units are the fully redundant power supplies 14MM-UP413



| Product Code                          | Wavelength | Stength | Output |
|---------------------------------------|------------|---------|--------|
| <a href="#">20MM-MO418-1555</a>       | 1555nm     | 6dBm    | Single |
| <a href="#">20MM-MO418L-4D31-1310</a> | 1310nm     | 6dBm    | Single |
| <a href="#">20MM-MO418L-4D55-1550</a> | 1550nm     | 6dBm    | Single |
| <a href="#">20MM-MO428L-4D31-1310</a> | 1310nm     | 6dBm    | Twin   |
| <a href="#">20MM-MO428L-4D55-1550</a> | 1550nm     | 6dBm    | Twin   |

## Specifications

| Product Code                              | 20MM-MO418-1555   | 20MM-MO418L-4D31-1310 | 20MM-MO418L-4D55-1550 | 20MM-MO428L-4D31-1310 | 20MM-MO428L-4D55-1550 |
|---|---|-----------------------|-----------------------|-----------------------|-----------------------|
| Optical Power                             | 1x6dBm  |                       |                       | 2x6dBm                |                       |
| Optical Wavelength                        | 1555±3nm  | 1310±3nm              | 1550±3nm              | 1310±3nm              | 1550±3nm              |
| Laser Type                                | DFB   |                       |                       |                       |                       |
| RF Frequency Range                        | 47-2400MHz  |                       |                       |                       |                       |
| RF Input Level                            | 70-85dBμV   |                       |                       |                       |                       |
| RF Input Impedance                        | 0 - -15dB by 1dB Step   |                       |                       |                       |                       |
| AGC Range                                 | ±5dB  |                       |                       |                       |                       |
| RF Input Loop Through Frequency Range     | 47-2400MHz  |                       |                       |                       |                       |
| RF Input Loop Through Loss                | <1dB  |                       |                       |                       |                       |
| RF Input Loop Through Flatness            | ±1dB  |                       |                       |                       |                       |
| Return Loss                               | ≥18dB at 40MHz -1.5dB/oct (47-950MHz);<br>≥10dB up to 1750MHz; ≥7dB up to 2400MHz |                       |                       |                       |                       |
| Relative Intensity Noise                  | < -150dB/Hz   |                       |                       |                       |                       |
| Terr. TV Intermodulation Distortion CSO** | >55dB   |                       |                       |                       |                       |
| Terr. TV Intermodulation Distortion CTB** | >60dB   |                       |                       |                       |                       |
| Terr. TV Carrier/ Noise Ratio C/N**       | >50dB   |                       |                       |                       |                       |
| SAT IF Intermodulation Distortions***     | >35dB   |                       |                       |                       |                       |
| Supply Voltage                            | 12V ± 1V  |                       |                       |                       |                       |
| DC Feeding for External                   | 12V 0.4 A   |                       |                       |                       |                       |
| Current Consumption                       | 0.35 A max.   |                       |                       | 0.4 A max.            |                       |
| Operating Temperature                     | 0° ÷ +50° C   |                       |                       |                       |                       |
| Dimensions/ Weight (Packed)               | 198x107.5x36mm/0.9kg  |                       |                       |                       |                       |