



INTRAPLEX® VF-28 & VF-29 VOICE MODULES

4-Wire Transmission Only Voice Modules

Intraplex 4-wire transmission-only voice frequency modules are available with PCM coding (64 kbps per channel) or ADPCM coding (32 kbps per channel).



Intraplex® VF-28 — VF-29 Voice Modules Features

- Four independent voice channels per module
- One, two, three, or four-channel operation
- Input and output level attenuation
- Support for fax or modem transmission at up to 9600 bps (VF-28) or 2400 bps (VF-29)
- Local and remote loopbacks

| Coding | 4W TO modules for T1 systems | 4W TO modules for E1 Systems |
|--------|------------------------------|------------------------------|
| PCM | VF-28 | VF-28E |
| ADPCM | VF-29 | VF-29E |

These modules plug into Intraplex access products, allowing voice channels to be combined with other types of payload channels for transport over T1 (1.5 Mbps), E1 (2 Mbps), or other high-speed digital lines.

Intraplex® VF-28—VF-29 Voice Modules

Specifications

Specifications and designs are subject to change without notice

| General | |
|------------------------------|--|
| Modules | <ul style="list-style-type: none">• VF-28/28E: Four-channel PCM• VF-29/29E: Four-channel ADPCM |
| System Compatibility | <ul style="list-style-type: none">• The VF-28 and VF-29 are compatible with Intraplex T1, ISDN, and variable-rate access products.• The VF-28E and VF-29E are compatible with Intraplex E1 access products. |
| Configuration | Four independent voice channels per card |
| Voice Frequency | |
| Frequency Response | 300 to 3000 Hz, ± 0.2 dB |
| Input/Output Level (Nominal) | 0 dBm in, 0 dBm out, ± 0.1 dBm |
| Input Level Range | -16.0 dBm to +3.0 dBm, adjustable via the multiplexer's remote access port |
| Output Level Range | -10.0 dBm to +10.0 dBm, adjustable via the multiplexer's remote access port |
| Impedance | 600 Ω input and output |
| Idle Channel Noise | Less than 23 dBrcO |
| Signal to Distortion | 1004 Hz input, 0 to 30 dBm: less than 33 dB in C message weighting |
| Network Interface | |
| Coding and Data Rate | <ul style="list-style-type: none">• VF-28: μ-law PCM, 64 kbps per channel• VF-28E: A-law PCM, 64 kbps per channel• VF-29: μ-law ADPCM, 32 kbps per channel• VF-29E: A-law ADPCM, 32 kbps per channel |
| Time Slot (DS0) Assignment | <ul style="list-style-type: none">• VF-28/28E: One to four sequential time slots (one per active channel); starting time slot selectable• VF-29/29E: One or two sequential time slots (one for each two active channels); starting time slot selectable |
| Status and Diagnostics | |
| LED Indicators | Green LED for Service On |
| Loopbacks | Local and remote analog loopbacks, activated via the multiplexer's remote access port |
| Input/Output Modules | |
| Connectors | 50-pin telco-type female connector on MA-301 Module Adapter; one MA-301 supports up to three modules in adjacent physical slots (12 voice channels) |
| Physical and Environmental | |
| Nominal Power Consumption | 2.0 watts per module |
| Temperature | 0 °C - 50 °C operating |
| Humidity | 0% - 90% noncondensing |