

CFO SERIES - CF0422



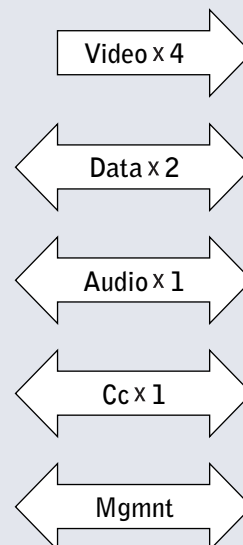
MULTIMODE 4CH VIDEO DUPLEX AUDIO/DATA LINK

The CF0422 link provides transmission of 4 video channels uni-directionally and 2 data, 1 audio and 1 contact closure channel bi-directionally on 2 multimode optical fibres at 1310nm for up to 4...5 km. The product utilises the latest uncompressed digital technology to provide very high performance video and audio transmission and reliable error free data services. All common data protocols are supported and are easily selectable from the same unit. As with all CFO Platform products the unit meets all international EMC and environmental requirements.



FEATURES AND BENEFITS

- Four Channel Video Multiplexer
- High Performance Uncompressed Digital Video
- PAL/NTSC/CBVS or Y/C (2) Video Input
- Bi-directional Audio/Data/Contact Closure Transmission (CRT <--> CRR)
- Supports All Common Protocols in Same Unit
- Bi-directional on 2 Multimode Fibres up to 4...5 km Depending on Fibre Bandwidth
- True Plug and Play - No Adjustments, Switches, etc.
- In-band Configuration and Management
- Same Units for Rackmount or Standalone
- Mechanically Compact and Ruggedised
- International EMC and Environmental Conformance
- Compatible with all CFO Installation Systems
- CE Approved



CF0422 S/M 4 CHANNEL LINK

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MULTIMODE 4CH VIDEO, DUPLEX AUDIO/DATA LINK

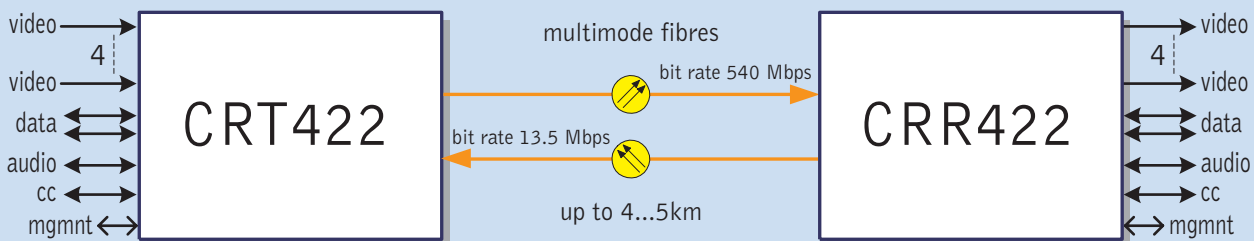


SYSTEM SPECIFICATIONS (Typical values unless otherwise stated)

| PARAMETER | VALUE | UNIT | COMMENTS |
|--------------------------------|-----------|------|------------------------|
| Optical | | | |
| Output/Input Wavelength | 1310 | nm | |
| Output Power | -7 | dBm | multimode fibre |
| Spectral Width | 3 | nm | |
| Received Power (Min) | -20 | dBm | to meet specifications |
| Link Budget | 13 | dB | |
| Bit Rate (Forward) | 540 | Mbps | CRT to CRR |
| Bit Rate (Return) | 13.5 | Mbps | CRR to CRT |
| Video | | | |
| Number of Channels | 4 | | uni-directional |
| Sampling Frequency | 13.5 | MHz | |
| Sampling Resolution | 8 | bits | |
| Source and Load Impedance | 75 | ohm | |
| Return Loss | 30 | dB | 0.1MHz to 5.5MHz |
| Input and Output Signal Levels | 1 | Vp-p | |
| Input Overload Level | 1.5 | Vp-p | DC component |
| Insertion Gain | ± 10 | % | 1 V |
| Bandwidth | 5.5 | MHz | -3dB |
| Line Time Distortion | 2.5 | % | 25µs Bar 'K' rating |
| Short Time Distortion | 2.5 | % | 2T Pulse 'K' rating |
| Short Time Distortion | 5 | % | 2T Pulse to Bar ratio |
| C/L Crosstalk | 0.2 | % | n/a for S-Video |
| Luminance Non Linearity | 3.5 | % | |
| C/L Gain Inequality | 3 | % | |
| C/L Delay Inequality | 90 | ns | |
| Differential Gain | 1 | % | |
| Differential Phase | 1 | ° | n/a for S-Video |
| S/N Ratio | 60 | dB | unified, weighted |
| Audio | | | |
| Number of Channels | 1 | | bi-directional |
| Sampling Frequency | 52 | kHz | |
| Sampling Resolution | 16 | bits | |
| Input Impedance | 600/>10k | ohm | selectable |
| Output Impedance | 10 | ohm | |
| Nominal Level | +6 | dBm | |
| Clipping Level | +12 | dBm | |
| Insertion Gain | ± 1 | dB | 0 dBm |
| Frequency Response | 0.02...20 | kHz | |
| Harmonic Distortion | 0.1 | % | |
| S/N Ratio | 75 | dBqp | CCIR weighted |

| PARAMETER | VALUE | UNIT | COMMENTS |
|--|-------------------------------------|------|------------------|
| Data | | | |
| Number of Channels | 2 | | bi-directional |
| Data 1 Format | RS232 | | non-selectable |
| Data Rate | 0...120 | kbps | |
| Data 2 Formats | RS422/485/TTL | | selectable |
| Data Rate | 0...160 | kbps | |
| Oversampling Rate | 1.6 | MHz | |
| Data Jitter | 10 | % | at max data rate |
| Dwelltime Setting | 50...10000 | µs | RS485 |
| Contact Closure | | | |
| Number of Channels | 1 | | bi-directional |
| Data Rate | 15 | Hz | |
| Latency | 200 | ms | |
| Management | | | |
| Protocol | VT100/102, ANSI | | |
| Data Format | RS232 | | |
| Communication | CRT <-> CRR | | bi-directional |
| Electrical | | | |
| Supply Voltage | 10.5...14 | V DC | regulated |
| Current Consumption (Max) | 800 | mA | steady state |
| Mechanical | | | |
| Dimensions (H x W x D) | 3U x 10HP x 190mm | | |
| Weight | 0.7 | kg | |
| Connectors | | | |
| Video | BNC female | | |
| Audio/Data/Management | HD15 female | | |
| Optical | ST (2 pcs) | | |
| Environmental | | | |
| Operating Temperature | -10...+55 | °C | |
| Storage Temperature | -30...+70 | °C | |
| Humidity | 0...95 | % | non condensing |
| Vibration | EN 50130-5: 1995 | | |
| Damp Heat | BS2011 p2.1, test dB, 95%rh 25...40 | °C | |
| Electromagnetic Compatibility (EMC) | | | |
| Emissions | EN 50081-1, EN 55022-B | | |
| Susceptability | EN 50130-4, EN 50082-1 | | |

BLOCK DIAGRAM



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