

- 61 dBmV QAM low phase noise output is agile on channels from 54 to 860 MHz.
- High MER output signal quality.
- Meets or exceeds DOCSIS 2.0 Downstream output specifications.
- 1U tall package with internal power supply conserves rack space.
- Manufactured in the USA.

Drake Digital QQP860 Technical Specifications

| Demodulator Input | |
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| Input Frequency Range: | 54 - 864 MHz. Off-air channels 2-69, CATV channels 2-135. |
| Menu Selectable Channel Plans: | Standard CATV, HRC, IRC or Broadcast. |
| Input Channel Bandwidth: | 6 MHz. |
| Input RF Level Range: | -28 dBmV to +30 dBmV. |
| Minimum Input Level per Mode: | 8VSB: -28 dBmV, 16VSB: -25 dBmV, 64QAM: -20 dBmV, 256QAM: -15 dBmV. |
| Maximum Input Power (sum of all channels): | Not to exceed -16 dBm. |
| Input Impedance: | 75 Ohms with Return Loss typically 8 dB. |
| Noise Figure: | Less than 12 dB. |
| Image Rejection: | 40 dB. |
| Adjacent Channel Rejection: | 60 dB. |
| Local Oscillator Leakage to Input: | Less than -12 dBmV. |
| Demodulation Modes: | ATSC: 8VSB or 16VSB ITU-A: 16QAM, 32QAM, 64QAM, 128QAM, or 256QAM. ITU-B: 64QAM or 256QAM. |
| Symbol Rates: | Commonly used presets and user programmable. |
| QAM Modulator | |
| Modulation Modes: | 16QAM, 32QAM, 64QAM, 128QAM or 256QAM. |
| Symbol Rate: | 1 Ms/S to 7 Ms/S. |

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| Forward Error Correction (FEC): | ITU-A (DVB) or ITU-B (DigiCipher® II). |
| I/Q Phase Error: | Less than 1 degree. |
| Carrier Suppression: | 45 dB. |
| Channel Amplitude Error: | Less than 1dB. |
| MER: | Greater than 38 dB with blind equalizer. |
| Analog EAS IF Input | |
| Input Impedance: | 75 Ohms with a return loss of 20 dB. |
| Operating Input Level: | +30 dBmV \pm 5 dB @ 45.75 MHz. |
| Auto Switching Level: | +20 dBmV minimum. |
| RF Output | |
| Output Frequency Range | 54 MHz to 864 MHz. |
| Channel Plan: | Standard CATV, HRC, IRC or Broadcast. |
| FCC Offsets: | Automatic, +12.5 or +25 kHz. |
| Frequency Stability: | \pm 5 ppm. |
| Maximum Output Level: | +61 dBmV minimum, adjustable downward. |
| Minimum Output Level: | +45 dBmV. |
| Output Level Accuracy: | \pm 1 dB. |
| Output Impedance: | 75 Ohms with return loss better than 14 dB (within output filter passband). |
| Spurious Outputs: | -60 dBc from 40 MHz to 1000 MHz. |
| Broadband Noise: | Less than -12 dBmV (6 MHz bandwidth @ \pm 12 MHz). |
| Phase Noise: | -95 dBc @ 10 kHz offset, -OR- 1 kHz to 10 kHz: Less than -36 dBc double sideband noise power. 10 kHz to 50 kHz: Less than -54 dBc double sideband noise power. 50 kHz to 3 MHz: Less than -54 dBc double sideband noise power. |
| General | |
| Power: | 90-260 VAC, 47-63 Hz, 38 W. |
| Weight: | 7 lbs. (3.2 Kg.) |
| Size: | 19" (48.3 cm) W x 1.75" (4.45 cm) H x 11.5" (29.2 cm) D |

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| Operating Temperature: | 0° C (32° F) to 50° C (122° F) |
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Specifications, price, and availability are subject to change without notice or obligation.



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