

EqcoLogic Technology

EQCO400T

EQCO850SC

EQCO875SC

EQCO62T/R20

EQCO5000

EQCO2754

EQCO30R5

EQCO62T20 & EQCO62R20

The EQCO62T20/EQCO62R20 is a driver/equalizer chipset that forms a bidirectional full duplex communication link over a single coax cable. The EQCO62T20/EQCO62R20 chipset is designed to transport up to 6.25 Gbps over the downlink channel and to transport 21 Mbps over the uplink channel. Power can be transferred over the same cable via external inductors. The EQCO62T20 is designed for the camera side and the EQCO62R20 for the Frame Grabber side.

Features

- Eqcolink™ Multi-Rate adaptive equalization technology
 - Supports up to 58 Metres of RG11 cable at 6.25 Gbps
- Complies with the new CoaXPress v1.0 camera standard, see www.CoaXPress.com
- Full duplex bidirectional data channel
 - Downlink speeds from 1 Gbps up to 6.25 Gbps; differential interfacing straightforward
 - Flexible, uplink supporting up to 21 Mbps, allowing nanoseconds precise triggering
- Supports Power distribution over the coax up to 700 mA, on top of the data signals allowing to power the camera through the same coax
- Low power consumption (<70 mW, 1.2 V supply)
- -40 - +85 °C industrial temperature range

For more information, click [here](#).

The chipset is designed to work with several types of 75Ω coaxial cables including legacy cables as well as thin flexible lightweight cables:

BELDEN

	Name	Belden 7731A	Belden 1694A	Belden 1505A	Belden 1505F	Belden 1855A
	Type	Long Distance	Industry Standard	Compromis Coax	Flexible	Thinnest cable
Diameter	(mm)	10.3	6.99	5.94	6.15	4.03
1.25 Gbps	(m)	194	130	107	80	55
2.5 Gbps	(m)	162	110	94	66	55
3.125 Gbps	(m)	147	100	86	60	55
5.0 Gbps	(m)	87	60	52	35	38
6.25 Gbps	(m)	58	40	35	23	25

GEPCO

	Name	Gepco VHD1100	Gepco VSD2001	Gepco VPM2000	Gepco VHD2000M	Gepco VDM230
	Type	Long Distance	Industry Standard	Compromis Coax	Flexible	Thinnest cable
Diameter	(mm)	10.3	6.91	6.15	6.15	4.16
1.25 Gbps	(m)	212	140	109	81	66
2.5 Gbps	(m)	185	120	94	67	66
3.125 Gbps	(m)	169	110	86	61	62
5.0 Gbps	(m)	102	66	53	36	38
6.25 Gbps	(m)	68	44	35	24	25

CANARE*

	Name	Canare L-7CFB	Canare L-5CFB	Canare L-4CFB	Canare L-3CFB	Canare L-2.5CFB
	Type	Long Distance	Industry Standard	Compromis Coax	Thin Cable	Thinnest Cable
Diameter	(mm)	10.2	7.7	6.1	5.5	4
1.25 Gbps	(m)	165	118	94	72	43
2.5 Gbps	(m)	135	98	79	66	43
3.125 Gbps	(m)	122	88	71	60	43
5.0 Gbps	(m)	71	52	42	36	30
6.25 Gbps	(m)	46	34	28	24	20

* specs from Canare only up to 2GHz, 5 Gbps and 6.25 Gbps performance are by extrapolation!

Product Status

Product status: sample production, volume 2Q2010
For more information, click [here](#).