



3. Information of EUT

Note: Provided by the applicant.

3.1 Information of Applicant

Applicant Name: Beacon Global Technology China Co.,Ltd.
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Manufacturer Name: Beacon Global Technology China Co.,Ltd.
Manufacturer Address: Room 5F-563, Building 03, No.117 Meisheng Road, Free Trade Zone, Shanghai City, China.

3.2 Information of EUT

EUT Name: BT Industrial Communication Gateway
Model Name: BT-EN-MT-B
Sample No.: 01A01,01A02
EUT Description: Power supply : 24Vdc,1A.
Function Description: BT-EN-MT communication gateway offers bi-directional data transfers(up to 20,000 bytes)between devices on EtherNet/IP and Modbus TCP. Each protocol gateway provides two Ethernet port respectively for EtherNet/IP and Modbus TCP, in support of communication with PLC or other Ethernet devices (HMI、Converter、 Operator station), these two Ethernet ports could be configured under same subnet or under different subnets.
EtherNet/IP applies Class1 I/O and supports up to 20 I/O connections. Both EtherNet/IP and Modbus TCP supports up to 15 Clients and 15 Servers, each EtherNet/IP Clients supports up to 128 commands and total number of supported commands reach up to 1920. Modbus TCP Client supports up to 32 commands and total number of commands reaches up to 480.
BT-EN-MT supports webpage configuration and diagnostics without installing any software, in addition, LED display provides basic diagnostic information.It applies stand-alone DIN-rail mounted techniques, also comes with a industrial SD slot available to restore device settings to reduce downtime.
It contains a wide input power range (10 VDC -36 VDC), and an extended temperature range (-35° F to 167° F).



Test models and list models are exactly same hardware. Front overlay is different on each model based on model type which determined by which protocol drivers are running on this hardware.

No.	Model Name	Description
1	BT-COM-MB-S	CAN open master to Modbus serial 1 port
2	BT-DM-61850C-S	Profibus-DP master to IEC61850 master
3	BT-DM-MB2-S	Profibus-DP master to Modbus serial 2 ports
4	BT-DM-MB-S	Profibus-DP master to Modbus serial 1 port
5	BT-DS-61850S-S	Profibus-DP slave to IEC61850 slave
6	BT-DS-MB2-S	Profibus-DP slave to Modbus serial 2 ports
7	BT-DS-MB-S	Profibus-DP slave to Modbus serial 1 port
8	BT-EN-104C-S	EtherNet/IP to IEC60870-104 master
9	BT-EN-61850C-S	EtherNet/IP to IEC61850 master
10	BT-EN-61850S-S	EtherNet/IP to IEC61850 slave
11	BT-EN-AC-B	EtherNet/IP to ASC II 1 port
12	BT-EN-AC-P	EtherNet/IP to ASC II 1 port
13	BT-EN-COM-S	EtherNet/IP to CAN open master
14	BT-EN-DM-S	EtherNet/IP to Profibus-DP master
15	BT-EN-DNPE-S	EtherNet/IP to DNP EtherNet
16	BT-EN-DNPS-S	EtherNet/IP to DNP 3.0 serial
17	BT-EN-DS-S	EtherNet/IP to Profibus-DP slave
18	BT-EN-EN-S	EtherNet/IP to EtherNet/IP
19	BT-EN-MB2-B	EtherNet/IP to Modbus serial 2 ports
20	BT-EN-MB2-P	EtherNet/IP to Modbus serial 2 ports
21	BT-EN-MB4-B	EtherNet/IP to Modbus serial 4 ports
22	BT-EN-MB4-P	EtherNet/IP to Modbus serial 4 ports
23	BT-EN-MB-B	EtherNet/IP to Modbus serial 1 port
24	BT-EN-MB-P	EtherNet/IP to Modbus serial 1 port
25	BT-EN-MT-B	EtherNet/IP to Modbus TCP
26	BT-EN-MTB-S	EtherNet/IP to Modbus TCP& Modbus serial
27	BT-EN-MTCOM-S	EtherNet/IP to Modbus TCP&CAN open master
28	BT-EN-MTDM-S	EtherNet/IP to Modbus TCP&Profibus-DP master
29	BT-EN-MTDS-S	EtherNet/IP to Modbus TCP&Profibus-DP slave
30	BT-EN-MT-P	EtherNet/IP to Modbus TCP
31	BT-EN-PNADM-S	EtherNet/IP to PROFINET slave&Profibus-DP master
32	BT-EN-PNADS-S	EtherNet/IP to PROFINET slave&Profibus-DP slave
33	BT-EN-PNA-S	EtherNet/IP to PROFINET slave
34	BT-EN-PNSDM-S	EtherNet/IP to PROFINET master&Profibus-DP master
35	BT-EN-PNSDS-S	EtherNet/IP to PROFINET master&Profibus-DP slave
36	BT-EN-PNS-S	EtherNet/IP to PROFINET master
37	BT-EN-SE-B	EtherNet/IP to Siemens S7 EtherNet
38	BT-EN-SE-P	EtherNet/IP to Siemens S7 EtherNet
39	BT-MT-104C-S	Modbus TCP to IEC60870-104 master



40	BT-MT-61850C-S	Modbus TCP to IEC61850 master
41	BT-MT-61850S-S	Modbus TCP to IEC61850 slave
42	BT-MT-AC-B	Modbus TCP to ASC II 1 port
43	BT-MT-AC-P	Modbus TCP to ASC II 1 port
44	BT-MT-COM-S	Modbus TCP to CAN open master
45	BT-MT-DM-S	Modbus TCP to Profibus-DP master
46	BT-MT-DNPE-S	Modbus TCP to DNP EtherNet
47	BT-MT-DNPS-S	Modbus TCP to DNP 3.0 serial
48	BT-MT-DS-S	Modbus TCP to Profibus-DP slave
49	BT-MT-MB2-B	Modbus TCP to Modbus serial 2 ports
50	BT-MT-MB2-P	Modbus TCP to Modbus serial 2 ports
51	BT-MT-MB4-B	Modbus TCP to Modbus serial 4 ports
52	BT-MT-MB4-P	Modbus TCP to Modbus serial 4 ports
53	BT-MT-MB-B	Modbus TCP to Modbus serial 1 port
54	BT-MT-MB-P	Modbus TCP to Modbus serial 1 port
55	BT-MT-MT-S	Modbus TCP to Modbus TCP
56	BT-MT-PNADM-S	Modbus TCP to PROFINET slave&Profibus-DP master
57	BT-MT-PNADS-S	Modbus TCP to PROFINET slave&Profibus-DP slave
58	BT-MT-PNA-S	Modbus TCP to PROFINET slave
59	BT-MT-PNSDM-S	Modbus TCP to PROFINET master&Profibus-DP master
60	BT-MT-PNSDS-S	Modbus TCP to PROFINET master&Profibus-DP slave
61	BT-MT-PNS-S	Modbus TCP to PROFINET master
62	BT-MT-SE-B	Modbus TCP to Siemens S7 EtherNet
63	BT-MT-SE-P	Modbus TCP to Siemens S7 EtherNet
64	BT-PNA-104C-S	PROFINET slave to IEC60870-104 master
65	BT-PNA-61850C-S	PROFINET slave to IEC61850 master
66	BT-PNA-61850S-S	PROFINET slave to IEC61850 slave
67	BT-PNA-AC-S	PROFINET slave to ASC II 1 port
68	BT-PNA-COM-S	PROFINET slave to CAN open master
69	BT-PNA-DNPE-S	PROFINET slave to DNP EtherNet
70	BT-PNA-DNPS-S	PROFINET slave to DNP 3.0 serial
71	BT-PNA-MB2-S	PROFINET slave to Modbus serial 2 ports
72	BT-PNA-MB4-S	PROFINET slave to Modbus serial 4 ports
73	BT-PNA-MB-S	PROFINET slave to Modbus serial 1 port
74	BT-PNS-104C-S	PROFINET master to IEC60870-104 master
75	BT-PNS-61850C-S	PROFINET master to IEC61850 master
76	BT-PNS-61850S-S	PROFINET master to IEC61850 slave
77	BT-PNS-AC-S	PROFINET master to ASC II 1 port
78	BT-PNS-COM-S	PROFINET master to CAN open master
79	BT-PNS-DNPE-S	PROFINET master to DNP EtherNet
80	BT-PNS-DNPS-S	PROFINET master to DNP 3.0 serial
81	BT-PNS-MB-S	PROFINET master to Modbus serial 1 port
82	BT-SE-104C-S	Siemens S7 EtherNet to IEC60870-104



83	BT-SE-61850C-S	Siemens S7 EtherNet to IEC61850 master
84	BT-SE-61850S-S	Siemens S7 EtherNet to IEC61850 slave
85	BT-SE-AC-S	Siemens S7 EtherNet to ASC II 1 port
86	BT-SE-COM-S	Siemens S7 EtherNet to CAN open master
87	BT-SE-DNPE-S	Siemens S7 EtherNet to DNP EtherNet
88	BT-SE-DNPS-S	Siemens S7 EtherNet to DNP 3.0 serial
89	BT-SE-MB-S	Siemens S7 EtherNet to Modbus serial 1 port
90	BT-SE-PNA-S	Siemens S7 EtherNet to PROFINET slave
91	BT-SE-PNS-S	Siemens S7 EtherNet to PROFINET master
92	BT-61850C-DNPE-S	IEC61850 master to DNP EtherNet
93	BT-61850C-DNPS-S	IEC61850 master to DNP 3.0 serial
94	BT-61850C-MB-S	IEC61850 master to Modbus serial 1 port
95	BT-61850S-DNPE-S	IEC61850 slave to DNP EtherNet
96	BT-61850S-DNPS-S	IEC61850 slave to DNP 3.0 serial
97	BT-61850S-MB-S	IEC61850 slave to Modbus serial 1 port

Note: This report is generated based on test model performance only.

3.3 Photos of EUT





4. Test Result

No.	Test Item	Test Standard	Class / Severity	Conclusion
1	Conducted Emission Test	EN 55022:2010	Clause 5.1 of EN 55022 Class B	PASS
2	Radiated Emission Test	EN 55022:2010	Clause 6.1 of EN 55022 Class B	PASS
3	Electrostatic Discharge Immunity Test	EN 55024-2:2010	Contact ± 4 kV Air ± 8 kV	PASS
4	Radiated, Radio Frequency Electromagnetic Field Immunity Test	EN 55024:2010	80-1000MHz 3V/m 80%, 1kHz, AM	PASS
5	Electrical Fast Transient/Burst Immunity Test	EN 55024:2010	± 0.5 kV 5/50ns 1min	PASS
6	Surge Immunity Test	EN 55024:2010	± 0.5 kV 1.2/50us 1min/pulse	PASS
7	Conducted Disturbance Immunity Test	EN 55024:2010	0.15-80MHz 3V 80%, 1kHz, AM	PASS
8	Power Magnetic Field Immunity Test	EN 55024:2010	50Hz 1A/m X/Y/Z	PASS
9	Cold test	IEC 60068-2-1:2007	$(-30 \pm 3)^{\circ}\text{C}$, 48h	PASS
10	Dry heat test	IEC 60068-2-2:2007	$(85 \pm 2)^{\circ}\text{C}$, 48h	PASS
11	Shock test	IEC 60068-2-27:2008	Sine wave, accelerated speed: 5g	PASS
12	Vibration (sinusoidal) test	IEC 60068-2-6:2007	10Hz-150Hz 1.5h.	PASS

Note: Test result in this report is only applicable to tested model.