

TEST REPORT

RDT-050527-03

Report No :

DATE : 2005/5/27

Description :	CAT 5e RJ-45 Jack Hardware Performance Testing
Product :	BT2012P5E-Mxx
Measurements :	<ol style="list-style-type: none">1. TIA/EIA-568-B.2, Balanced Twisted - Pair Cabling Components , dated MAY 2001.2. RJ-45 Connection Hardware Performance Testing<ol style="list-style-type: none">2-1. Attenuation
Standards :	<ol style="list-style-type: none">1. TIA/EIA-568-B.2, Balanced Twisted - Pair Cabling Components , dated MAY 2001.2. The modular cabling configuration is according to T568B (Pair1=4,5 Pair2=1,2 Pair3=3,6 Pair4=7,8)
Equipment :	<ol style="list-style-type: none">1. Agilent 8753ES Network Analyzer<ol style="list-style-type: none">1-1. Swept Frequency From 0.5M Hz to 155M Hz1-2. Calibrated using a full 2 port1-3. 801 linearly data points1-4. 3700 Hz I/F Bandwidth1-5. 0.3 second sweep time2. BH 040-0093 Balun3. Test Plug constructed as per annex E and F , TIA/EIA-568-B.24. Belden 1872A 100Ω 4 Pair Wires
Results :	<ol style="list-style-type: none">1. The results are shown in summary and graphs.2. The Network Analyzer Testing : *PASS*.

Approved :

James

Test Engine

Alger

BT2012P5E-Mxx

2005/5/27

Manufacturer :

Mode: Common and differential

Model/Part : HardWare

Sample :

Notes : NEXT(Near)

1. Forward Reverse
2. T568A VT568B
3. Port: 3,4

port3 common mode Attenuation (Insertion loss)

UNIT:dB

Frequency(MHz)	1	4	8	10	16	20	25	31.25	62.5	100	155
TIA/EIA-568-B.2 Requirement	0.10	0.10	0.11	0.13	0.16	0.18	0.20	0.22	0.32	0.40	0.50
Pair 1 (5,4)	0.03	0.02	0.02	0.03	0.04	0.05	0.05	0.06	0.11	0.17	0.29
Pair 2 (1,2)	0.05	0.03	0.04	0.04	0.05	0.06	0.06	0.07	0.10	0.14	0.20
Pair 3 (3,6)	0.03	0.02	0.04	0.03	0.04	0.04	0.05	0.06	0.09	0.14	0.20
Pair 4 (7,8)	0.02	0.02	0.03	0.03	0.05	0.06	0.05	0.06	0.10	0.13	0.18

port3 differential mode Attenuation (Insertion loss)

Frequency(MHz)	1	4	8	10	16	20	25	31.25	62.5	100	155
TIA/EIA-568-B.2 Requirement	0.10	0.10	0.11	0.13	0.16	0.18	0.20	0.22	0.32	0.40	0.50
Pair 1 (5,4)	0.03	0.03	0.03	0.03	0.05	0.05	0.05	0.06	0.10	0.12	0.16
Pair 2 (1,2)	0.06	0.04	0.04	0.04	0.05	0.06	0.06	0.07	0.10	0.13	0.17
Pair 3 (3,6)	0.03	0.03	0.04	0.03	0.04	0.04	0.05	0.06	0.09	0.12	0.17
Pair 4 (7,8)	0.02	0.03	0.03	0.03	0.05	0.06	0.06	0.06	0.09	0.12	0.17

port4 common mode Attenuation (Insertion loss)

Frequency(MHz)	1	4	8	10	16	20	25	31.25	62.5	100	155
TIA/EIA-568-B.2 Requirement	0.10	0.10	0.11	0.13	0.16	0.18	0.20	0.22	0.32	0.40	0.50
Pair 1 (5,4)	0.04	0.03	0.02	0.03	0.04	0.05	0.06	0.07	0.12	0.21	0.38
Pair 2 (1,2)	0.05	0.04	0.04	0.04	0.05	0.06	0.06	0.07	0.09	0.13	0.19
Pair 3 (3,6)	0.03	0.03	0.04	0.03	0.04	0.04	0.05	0.06	0.08	0.13	0.20
Pair 4 (7,8)	0.03	0.02	0.03	0.03	0.04	0.05	0.05	0.05	0.08	0.10	0.13

port4 differential mode Attenuation (Insertion loss)

Frequency(MHz)	1	4	8	10	16	20	25	31.25	62.5	100	155
TIA/EIA-568-B.2 Requirement	0.10	0.10	0.11	0.13	0.16	0.18	0.20	0.22	0.32	0.40	0.50
Pair 1 (5,4)	0.04	0.03	0.03	0.04	0.05	0.05	0.05	0.06	0.09	0.12	0.16
Pair 2 (1,2)	0.05	0.04	0.04	0.04	0.05	0.06	0.06	0.07	0.09	0.11	0.15
Pair 3 (3,6)	0.03	0.02	0.03	0.03	0.04	0.04	0.05	0.06	0.08	0.11	0.16
Pair 4 (7,8)	0.02	0.02	0.02	0.03	0.04	0.05	0.04	0.05	0.07	0.10	0.12