

# TEST RESULT SUMMARY

**EUROPEAN STANDARD EN 61000-3-2: 1995 + A14: 2000**  
**EUROPEAN STANDARD EN 61000-3-3: 1995**

MANUFACTURER'S NAME	Digi International
NAME OF EQUIPMENT	Digi one SP Coldfire - Ethernet to Single Serial Port
MODEL NUMBER(S)	55001037-01 Rev2
MANUFACTURER'S ADDRESS	11001 Bren Road East Minnetonka, MN 55343
TEST REPORT NUMBER	NC203976.1
TEST DATE	08 August 2002

According to testing performed at TÜV Product Service Inc, the above-mentioned unit is in compliance with the electromagnetic compatibility requirements defined in European Standards EN 61000-3-2: 1995 + Amendment A14: 2000 and EN 61000-3-3: 1995.

It is the manufacturer's responsibility to assure that additional production units of this model are manufactured with identical electrical and mechanical characteristics. Any modifications necessary for compliance made during testing on the above mentioned date(s) must be implemented in all production units for compliance to be maintained.

TÜV Product Service Inc, as an independent testing laboratory, declares that the equipment tested as specified above complies with the requirements of European Standard EN 61000-3-2: 1995: Electromagnetic Compatibility – Part 3-2: Limits for Harmonic Current Emissions (Equipment Input Current  $\leq 16$  Amps Per Phase), and with European Standard EN 61000-3-3: 1995: Electromagnetic Compatibility - Limitation of Voltage Fluctuations and Flicker in Low-Voltage Supply Systems for Equipment with Rated Current  $\leq 16$  Amps.

Date: 06 September 2002

Location: New Brighton MN  
USA




Doug L Dahl  
EMC Technician



Curt D Propson  
EMC Engineer

Not Transferable

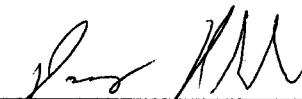



Product:	55001037-01	Aug 08 2002 8:06am
Serial no:	DLD	Page 1 of 1
Description:	10 / 100 Ethernet to single serial port terminal adapter.	
Result Name:	3976FH01	
Voltech IEC1000-3 Windows Software 3.02.03		Test Date: Aug 08 2002 8:00am
Type of Test:	Fluctuating Harmonics Test - Worst Case Table (1995)	
Power Analyzer:	Voltech PM3000A v1.71 s/n 6802	
AC Source:	Mains / Manual Source	
Overall Result:	<p><b>PASS</b></p> 	

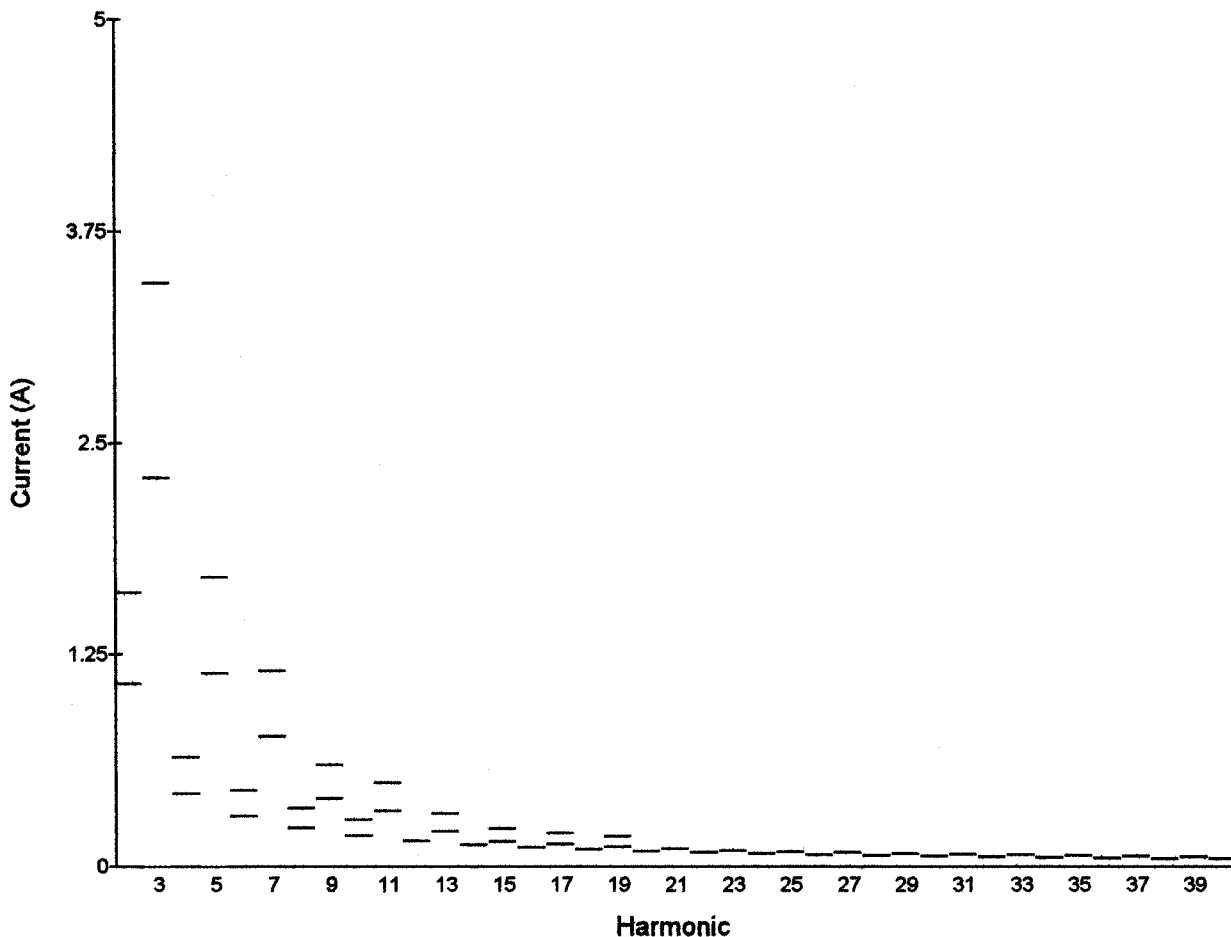
Class	Class A
Class Multiplier	1

Harm	Reading	Limit 1	Limit 2	<L1 >L1 →L1 >L2	Result	Harm	Reading	Limit 1	Limit 2	<L1 >L1 →L1 >L2	Result
2	0.08mA	1.080A	1.620A		N/A	3	6.64mA	2.300A	3.450A	✓	Pass
4	0.03mA	430mA	645mA		N/A	5	5.75mA	1.140A	1.710A	✓	Pass
6	0.04mA	300mA	450mA		N/A	7	0.72mA	770mA	1.155A		N/A
8	0.02mA	230mA	345mA		N/A	9	0.53mA	400mA	600mA		N/A
10	0.01mA	184mA	276mA		N/A	11	0.86mA	330mA	495mA		N/A
12	0.02mA	153mA	153mA		N/A	13	0.22mA	210mA	315mA		N/A
14	0.01mA	131mA	131mA		N/A	15	0.22mA	150mA	225mA		N/A
16	0.01mA	115mA	115mA		N/A	17	0.25mA	132mA	199mA		N/A
18	0.02mA	102mA	102mA		N/A	19	0.10mA	118mA	178mA		N/A
20	0.01mA	92mA	92mA		N/A	21	0.13mA	107mA	107mA		N/A
22	0.01mA	84mA	84mA		N/A	23	0.11mA	98mA	98mA		N/A
24	0.01mA	77mA	77mA		N/A	25	0.08mA	90mA	90mA		N/A
26	0.01mA	71mA	71mA		N/A	27	0.08mA	83mA	83mA		N/A
28	0.01mA	66mA	66mA		N/A	29	0.06mA	78mA	78mA		N/A
30	0.02mA	61mA	61mA		N/A	31	0.06mA	73mA	73mA		N/A
32	0.01mA	58mA	58mA		N/A	33	0.05mA	68mA	68mA		N/A
34	0.01mA	54mA	54mA		N/A	35	0.03mA	64mA	64mA		N/A
36	0.01mA	51mA	51mA		N/A	37	0.05mA	61mA	61mA		N/A
38	0.01mA	48mA	48mA		N/A	39	0.04mA	58mA	58mA		N/A
40	0.01mA	46mA	46mA		N/A						

- <L1 : Reading is below limit 1.
- >L1 : Reading is above limit 1 for less than 10% of a 2½ minute window.
- L1 : Reading is above limit 1 for more than 10% of a 2½ minute window.
- >L2 : Reading is above limit 2.
- N/A : Harmonic current below 0.6% of rated current or 5mA, whichever is greater, are disregarded.

Product:	55001037-01	Aug 08 2002 8:07am
Serial no:	DLD	Page 1 of 1
Description:	10 / 100 Ethernet to single serial port terminal adapter.	
Result Name:	3976FH01	
Voltech IEC1000-3 Windows Software 3.02.03		Test Date: Aug 08 2002 8:00am
Type of Test:	Fluctuating Harmonics Test - Linear Worst Case Bar Chart (1995)	
Power Analyzer:	Voltech PM3000A v1.71 s/n 6802	
AC Source:	Mains / Manual Source	
Overall Result:	<div style="display: flex; justify-content: space-between; align-items: center;"> <div style="font-size: 2em; font-weight: bold;">PASS</div> <div style="text-align: center;">  </div> <div style="text-align: center;">  </div> </div>	

Class	Class A
Class Multiplier	1



Product:	55001037-01	Aug 08 2002 8:07am Page 1 of 1
Serial no:	DLD	
Description:	10 / 100 Ethernet to single serial port terminal adapter.	
Result Name:	3976FH01	

Voltech IEC1000-3 Windows Software 3.02.03	Test Date: Aug 08 2002 8:00am
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Type of Test:	Fluctuating Harmonics Test - Source Qualification (1995)
Power Analyzer:	Voltech PM3000A v1.71 s/n 6802
AC Source:	Mains / Manual Source

Overall Result:		
<b>PASS</b>		

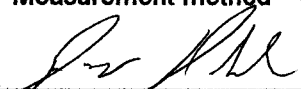
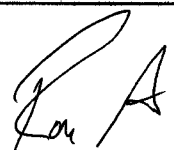
	Nominal	Measured	Deviation	Allowed Deviation	Result
Supply Voltage	230.00V	230.40V	0.40V	4.60V	Pass
Supply Frequency	50.00Hz	50.01Hz	0.01Hz	0.25Hz	Pass

Harmonic	Reading	Limit	Result	Harmonic	Reading	Limit	Result
2	0.03%	0.20%	Pass	3	0.05%	0.90%	Pass
4	0.03%	0.20%	Pass	5	0.02%	0.40%	Pass
6	0.02%	0.20%	Pass	7	0.01%	0.30%	Pass
8	0.02%	0.20%	Pass	9	0.02%	0.20%	Pass
10	0.02%	0.20%	Pass	11	0.02%	0.10%	Pass
12	0.03%	0.10%	Pass	13	0.01%	0.10%	Pass
14	0.02%	0.10%	Pass	15	0.01%	0.10%	Pass
16	0.01%	0.10%	Pass	17	0.02%	0.10%	Pass
18	0.01%	0.10%	Pass	19	0.02%	0.10%	Pass
20	0.01%	0.10%	Pass	21	0.01%	0.10%	Pass
22	0.02%	0.10%	Pass	23	0.02%	0.10%	Pass
24	0.01%	0.10%	Pass	25	0.01%	0.10%	Pass
26	0.01%	0.10%	Pass	27	0.02%	0.10%	Pass
28	0.01%	0.10%	Pass	29	0.01%	0.10%	Pass
30	0.02%	0.10%	Pass	31	0.01%	0.10%	Pass
32	0.01%	0.10%	Pass	33	0.02%	0.10%	Pass
34	0.01%	0.10%	Pass	35	0.02%	0.10%	Pass
36	0.02%	0.10%	Pass	37	0.02%	0.10%	Pass
38	0.02%	0.10%	Pass	39	0.02%	0.10%	Pass
40	0.02%	0.10%	Pass				

Product:	55001037-01	Aug 08 2002 8:22am Page 1 of 1
Serial no:	DLD	
Description:	10 / 100 Ethernet to single serial port terminal adapter.	
Result Name:	3976FM01	

Voltech IEC1000-3 Windows Software 3.02.03	Test Date: Aug 08 2002 8:09am
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Type of Test:	Flickermeter Test - Table
Power Analyzer:	Voltech PM3000A v1.71 s/n 6802
AC Source:	Mains / Manual Source

Overall Result:	Notes:
<b>PASS</b>	Measurement method - Voltage  

	Pst	dc (%)	dmax (%)	d(t) > 3%(ms)
Limit	1.000	3.000	4.000	200
Reading 1	0.076	0.017	0.069	0