

10/100BASE-TX QUAD PORT TRANSFORMER MODULES

For Use with Transceivers Requiring 1:1 Transmit and Receive Turns Ratios



- RoHS-6 peak reflow temperature rating: 245°C
- RoHS-5 peak reflow temperature rating: 235°C
- Meets IEEE 802.3 specification
- Models designed to support four single- or double-stacked RJ-45 connectors

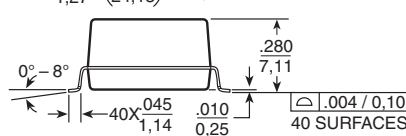
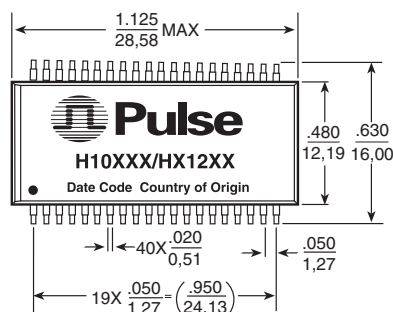
Electrical Specifications @ 25°C — Operating Temperature 0°C to 70°C

RoHS-6 ⁵ Compliant Part Number	RoHS-5 ⁴ Compliant Part Number	Insertion Loss (dB TYP)	Return Loss (dB TYP)					Crosstalk (dB TYP)				Common to Common Rejection Ratio 0.1-60 MHz (dB TYP)		Differential to Common Mode Rejection (dB TYP)	
			0.1-100 MHz	2-30 MHz	40 MHz	50 MHz	60-80 MHz	1 MHz	30 MHz	60 MHz	100 MHz	Transmit	Receive	1-60 MHz	60-200 MHz
		H1036LNL ^{3d}	H1036L ^{3d}	-0.5	-21	-17	-14.5	-12	-65	-55	-45	-35	-30	-30	-40
H1044NL ^{3d}	H1044 ^{3d}	-0.5	-21	-17	-14.5	-12	-65	-55	-45	-35	-30	-30	-40	-30	
H1053NL ^{3d}	H1053 ^{3d}	-0.5	-21	-17	-14.5	-12	-65	-50	-40	-30	-30	-30	-40	-30	
H1060NL ^{3d}	H1060 ^{3d}	-0.5	-21	-17	-14.5	-12	-65	-50	-40	-30	-30	-30	-40	-30	
H1062NL ^{3d}	H1062 ^{3d}	-0.5	-21	-17	-14.5	-12	-65	-55	-45	-35	-30	-30	-40	-30	
H1071NL ^{3d}	—	-0.5	-21	-17	-14.5	-12	-65	-50	-40	-30	-30	-30	-40	-30	
HX1203NL ^{1,3d}	HX1203 ^{1,3d}	-0.5	-21	-17	-14.5	-12	-65	-55	-45	-35	-30	-30	-40	-30	
—	HX1236 ^{1,3c}	-0.5	-18	-16	-14.5	-12	-50	-45	-40	-35	-30	-30	-40	-35	

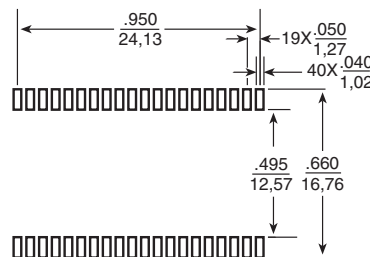
- Operating temperature -40° to +85°C.
 - For Tape & Reel packaging, add a suffix "T" to the end of the part number when ordering. e.g. H1036LT.
 - MSL = Moisture Sensitivity Level a = 1, b = 2, c = 3, d = 4.
 - RoHS-5: Product does not contain 5 out of the 6 banned substances specified in the RoHS directive (product contains lead in applications considered solder).
 - RoHS-6: Product does not contain 5 out of the 6 banned substances specified in the RoHS directive. Some internal connections may contain lead in high-temperature solder (solder alloys containing more than 85% lead).
- NOTE:** All models meet input/output breakdown (Hipot) of 1500 Vrms.

Mechanical

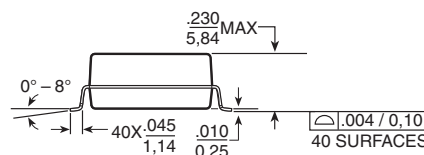
H10XX, HX12XX



HX1236, HX1203



SUGGESTED PAD LAYOUT



H1036L, H1044, H1053, H1060, H1062, H1071NL

Weight4.0 grams TYP
Tube15/tube
Tape & Reel250/reel

Dimensions: $\frac{\text{Inches}}{\text{mm}}$ Unless otherwise specified, all tolerances are $\pm \frac{.010}{.025}$

USA 858 674 8100 • Germany 49 7032 7806 0 • Singapore 65 6287 8998 • Shanghai 86 21 32181071 • China 86 755 33966678 • Taiwan 886 3 4643715

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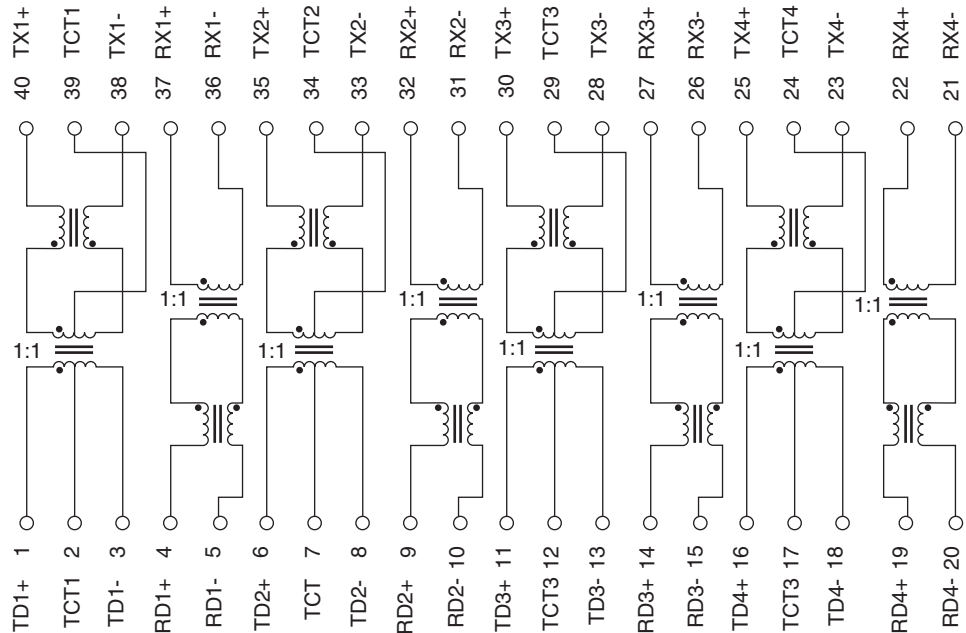
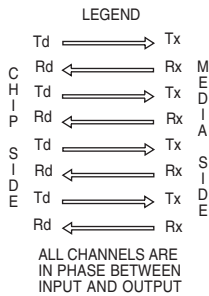


For Use with Transceivers Requiring 1:1 Transmit and Receive Turns Ratios

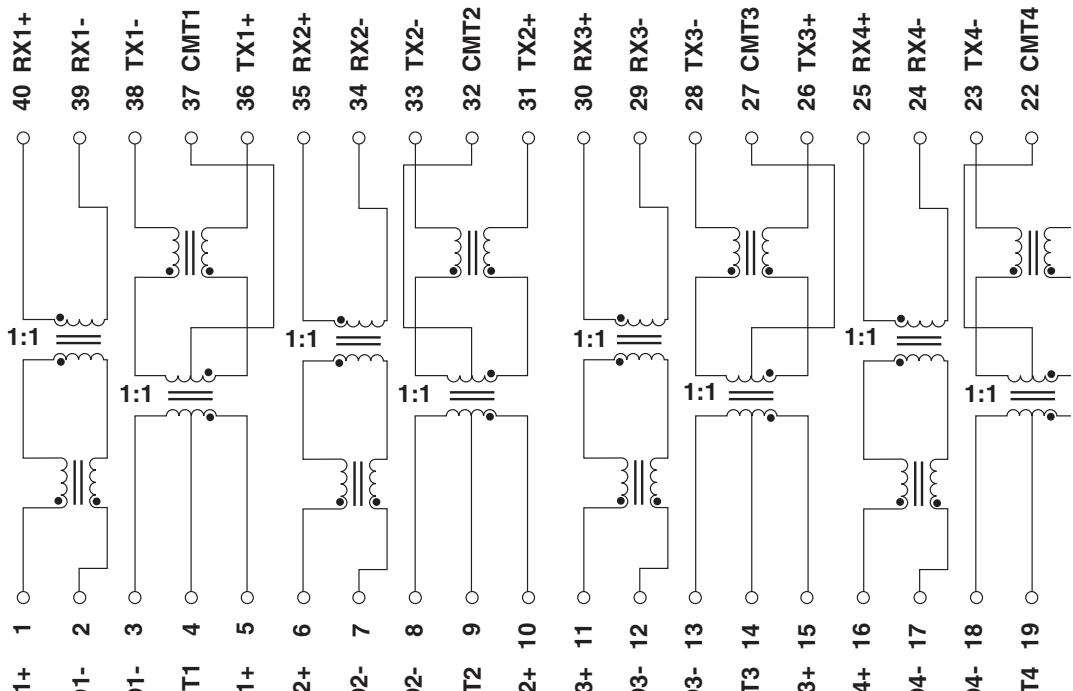
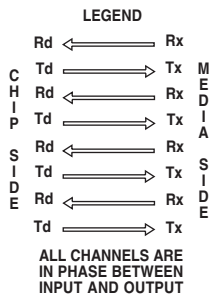
Quad-Port Solutions: The H1036L, H1044, H1053, H1060, H1062, and H1071NL are quad modules designed to support four single or double stacked RJ-45 connectors. Each has a different pinout for optimization in layout with various IC manufacturers.

Schematics

H1036L, HX1236



H1044



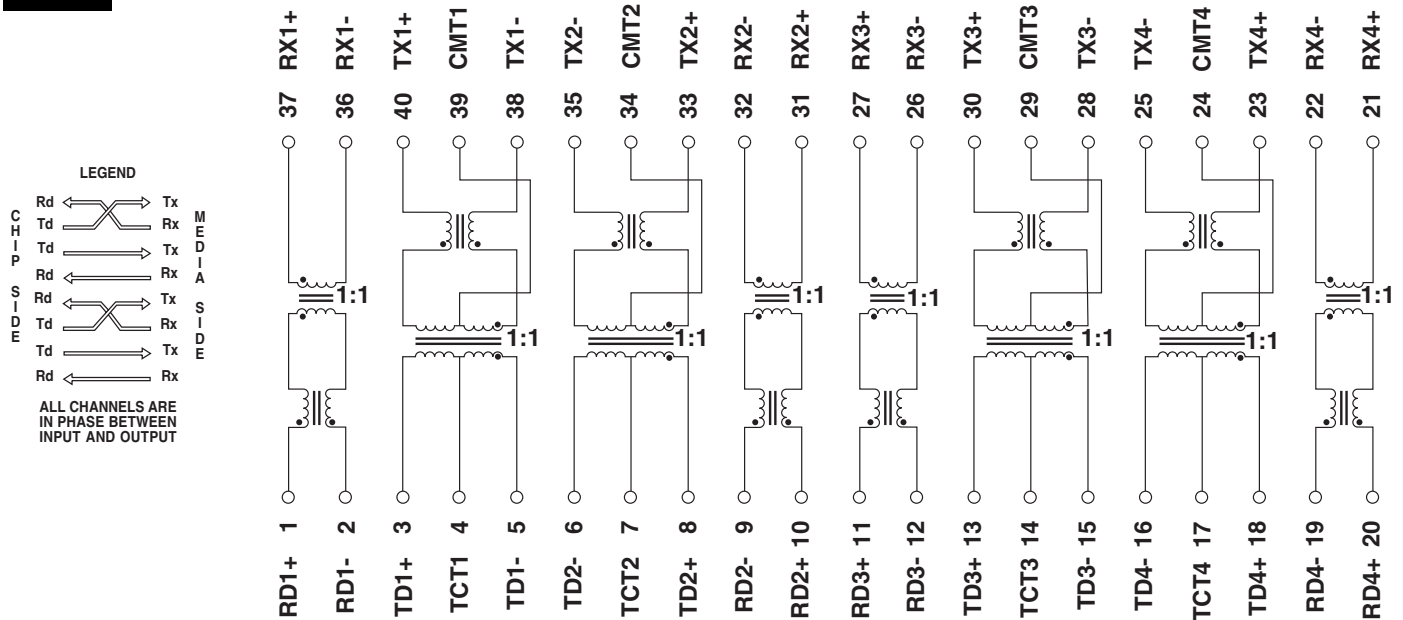
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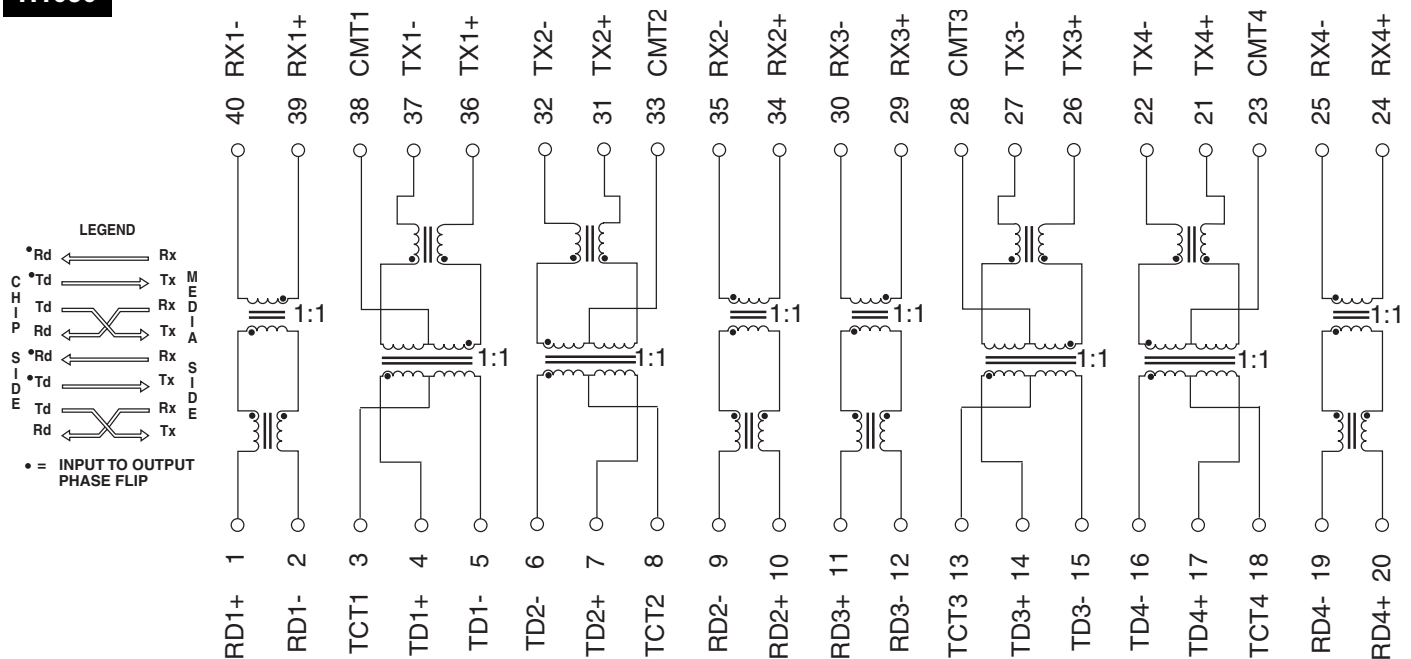


Schematics

H1053



H1060



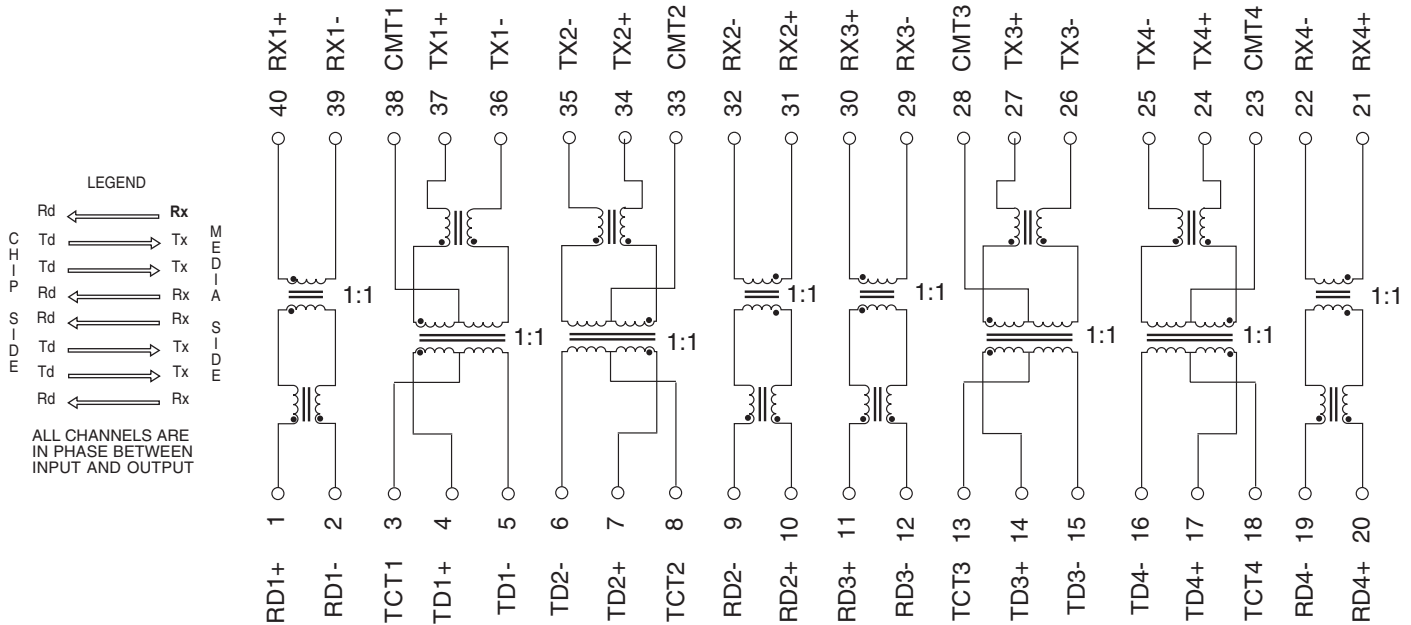
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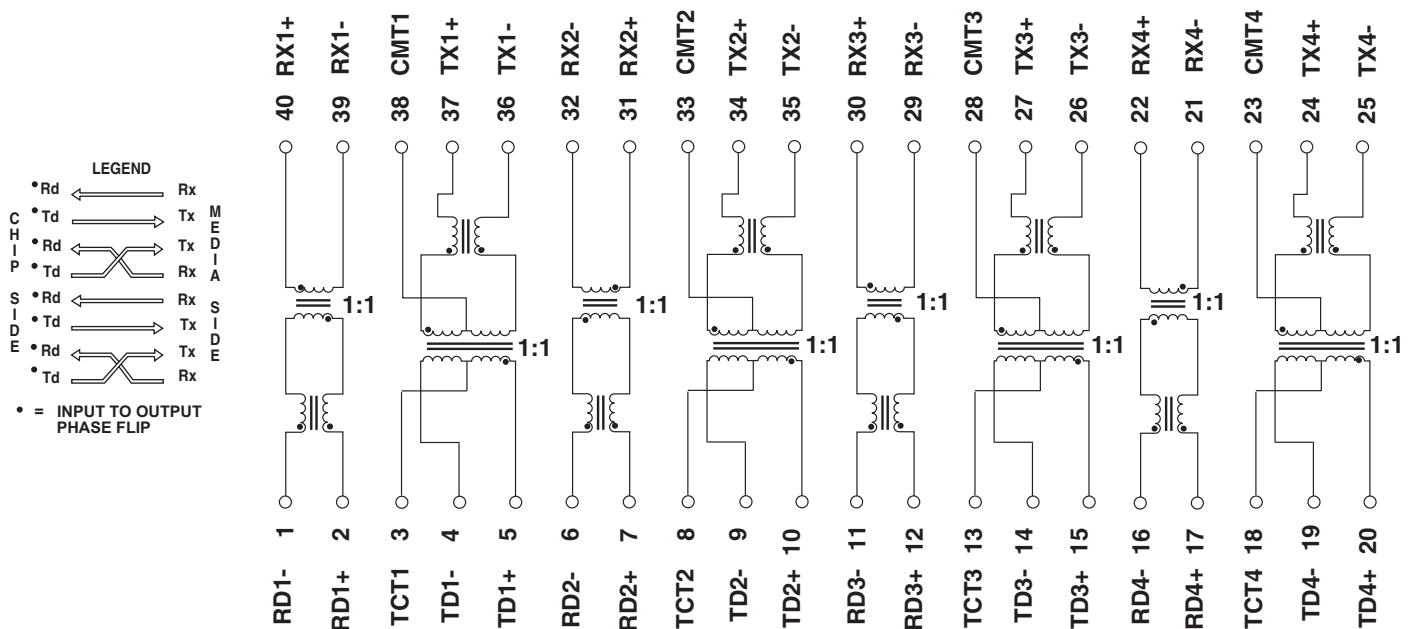


Schematics

H1062, HX1203



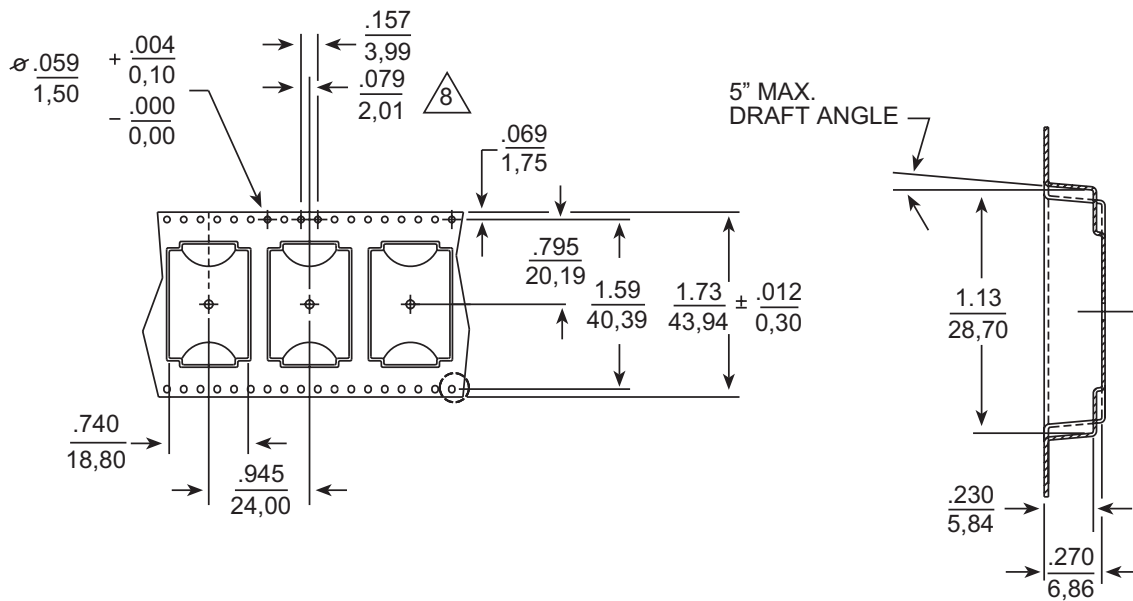
H1071NL



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Tape & Reel Specifications



For More Information:

Pulse Worldwide Headquarters	Pulse Europe	Pulse China Headquarters	Pulse North China	Pulse South Asia	Pulse North Asia
12220 World Trade Dr. San Diego, CA 92128 U.S.A.	Einsteinstrasse 1 D-71083 Herrenberg Germany	B402, Shenzhen Academy of Aerospace Technology Bldg. 10th Kejinan Rd. High-Tech Zone Nanshan District Shenzhen, PR China 518057	Room 1503 XinYin Building No. 888 YiShan Rd. Shanghai 200233 China	150 Kampong Ampat #07-01/02 KA Centre Singapore 368324	No. 26, Kao Ching Rd. Yang Mei Chen Taoyuan Hsien Taiwan R. O. C.
www.pulseeng.com					
Tel: 858 674 8100 Fax: 858 674 8262	Tel: 49 7032 7806 0 Fax: 49 7032 7806 135	TEL: 86 755 33966678 FAX: 86 755 33966700	Tel: 86 21 54643211/2 Fax: 86 21 54643210	Tel: 65 6287 8998 Fax: 65 6280 0080	Tel: 886 3 4643715 Fax: 886 3 4641911

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