

IEEE 802.3bv GEPOF Ad-Hoc Motions to PMD Section

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Yazaki Corporation
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- 1. Ad-Hoc member**
- 2. PMD parameters**
- 3. Motions**

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4	Volker Goetzfried	Avago
5	Carlos Pardo	KDPOF
6	Dylan Longhnan	Firecomms
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10	Thomas Lichtenegger	Avago
11	Takehiro Hayashi	Hat Lab
12	Shigeru Kobayashi	TE
13	Hayato Yuuki	Sumitomo
14	Yoshihiro Tsukamoto	Mitsubishi Rayon
15	Eugene Dai	Cox
16	Satoshi Takahashi	POF Promotion
17	Keisuke Kawahara	Furukawa
18	Tsunetoshi Saito	Furukawa
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Scope

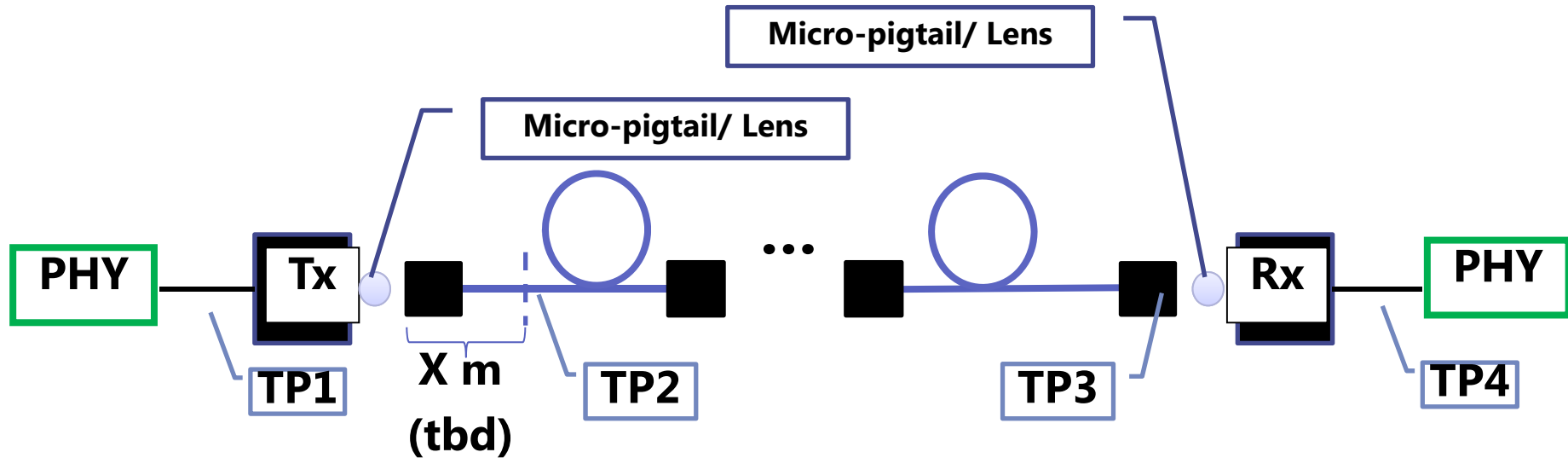
- ◆ Summarize Optical/ Electrical parameters and criteria that will be described on P802.3bv Std.

Schedule

- ◆ All discussion will be finished by the Interim meeting in May.
- ◆ Conference call will be held every 2 weeks

Date	Feb-6	Feb-13	Feb-27	Mar9-12	Mar- 26	Apr-10	Apr-24
JPN (GMT+9)	14:30	6:30	22:30	F2F	13:30	6:30	22:30
Europe	6:30	22:30 (Feb-12)	14:30	F2F	5:30	23:30 (Apr-9)	15:30
US (East)	0:30	16:30 (Feb-12)	8:30	F2F	0:30 (Mar-25)	17:30 (Apr-9)	9:30
US (West)	21:30 (Feb-5)	13:30 (Feb-12)	5:30	F2F	21:30 (Mar-25)	14:30 (Apr-9)	6:30

Definition for Test Point (TP)



- * TP2 : Optical out put power after 1m-POF included transmitting connector loss
 - * TP3 : Output power before coupling to the receiving connector
- Minimum sensitivity to be defined at TP3', but it is hardly to measure the value

<General parameters>

Categorize 3 applications

	Market	Temp	Channel	Remarks
Type A	Home	0 ~ 70 C	50m/ 1 inline	
Type B	Industrial	-40 ~ 85 C	50m/ 1 inline	
Type C	Automotive	-40 ~ 105 C	15m/ 4 inline 40m/ 0 inline	Temp: ~95 C?

Parameter	Symbol	Unit	Value/ Criteria
Average Launch Optical Power (LOP)	P	dBm	Type A: (Min, Max) Type B:(Min, Max) Type C:(Min, Max)
Average launch power of OFF transmitter	LOP _{off}	dBm	Only required to Type C: xX(Max)
Extinction ratio	ER	dBo	X (Min)
Numerical aperture (Launching condition)	NA		TBD
Center wavelength	Λ_c	nm	X (Min, Max)
Spectral width		nm	X (Max)
Rise time (10%/90%)	t _R	ns	X (Max)
Fall time (90%/10%)	t _F	ns	X (Max)
Positive overshoot (normalized)	Us	%	TBD
Transmitter timing jitter	J _{TP2}	ps RMS	X (Max)
2nd order Harmonic Distortion	HD2	dBc	X (Max)
3rd order Harmonic Distortion	HD3	dBc	X (Max)
Relative Intensity Noise	RIN	dB/Hz	X(Max)

<TP3>

Parameter	Symbol	Unit	Value/ Criteria
Average optical receiver input power	Pmax/ Pmin	dBm	Type A: x(Max/ Min) Type B: Type C:
Center wavelength	Λ_c	nm	x(Min, Max)
Spectral width		nm	x(Max)
Receivable Optical Power for sleep mode	Pin _{off}	dBm	For Type C: X(Max)
Receivable Optical Power to wake up mode	Pin _{on}	dBm	For Type C: X(Min)

Open Topics

- 1. Numerical Aperture at TP2 and/or TP3**
- 2. LPI related parameters (LPI: Low Power Idle)**
- 3. Test mode definition and methodology**

Motion 1.**Test point of PMD****Voting results.****For:****Against:****Abstain:**

Motion 2

General Requirement for PMD

Voting results.

For: Against: Abstain:

Motion 3

Requirements at TP2

Voting results.

For: Against: Abstain:

Motion 4

Requirements at TP3

Voting results.

For: Against: Abstain: